

**DOCKETED**

<b>Docket Number:</b>	23-OPT-02
<b>Project Title:</b>	Darden Clean Energy Project
<b>TN #:</b>	253578
<b>Document Title:</b>	Determination of Incomplete Application and Request for Information for the Darden Clean Energy Project
<b>Description:</b>	N/A
<b>Filer:</b>	Patty Paul
<b>Organization:</b>	California Energy Commission
<b>Submitter Role:</b>	Commission Staff
<b>Submission Date:</b>	12/11/2023 3:08:20 PM
<b>Docketed Date:</b>	12/11/2023



**CALIFORNIA  
ENERGY COMMISSION**



**CALIFORNIA  
NATURAL  
RESOURCES  
AGENCY**

December 11, 2023

Becky Moores  
IP Darden I, LLC and Affiliates  
c/o Intersect Power, LLC  
9450 SW Gemini Drive PMB #68743  
Beaverton, Oregon 97008

**Determination of Incomplete Application and Request for Information for the Darden Clean Energy Project (23-OPT-02)**

Dear Becky Moores,

On November 9, 2023, IP Darden I, LLC and Affiliates (applicant) finished filing all documents comprising an opt-in application to construct and operate the Darden Clean Energy Project on approximately 9,500 acres in western Fresno County. The project would be located in an agricultural area south of the community of Cantua Creek. The project would consist of a 1,150-megawatt (MW) solar photovoltaic (PV) facility, an up to 4,600 megawatt-hour battery energy storage system, an up to 1,150-MW green hydrogen generator, a 34.5-500 kilovolt (kV) grid step-up substation, a 10- to 15-mile 500 kV generation intertie line, and a 500 kV utility switching station. The project would interconnect to the existing Pacific Gas and Electric Company Los Banos-Midway #2 500 kV transmission line.

The California Energy Commission (CEC) staff has finished its initial review of the project application pursuant to California Code of Regulations, title 20, section 1877, which specifies the required contents of an application and Public Resources Code, section 25545.4(a), which states, "within 30 days of the submission of the application, the commission shall review the application and make a determination of completeness." Based on this review, staff has determined the submitted application is incomplete.

Staff has identified deficiencies in the following areas: Air Quality, Biological Resources, Cultural and Tribal Cultural Resources, Efficiency/Energy Resources, Executive Summary, Geologic Hazards, Greenhouse Gas Emissions, Hazardous Materials Handling, Land Use, Mandatory Requirements, Noise, Paleontological Resources, Project Description, Public Health, Socioeconomics, Soils, Traffic and Transportation, Transmission System Safety and Nuisance, Transmission System Design, Visual Resources, Waste Management, Water Resources, and Worker Safety.

Under Public Resources Code, section 25545.4(b), the CEC staff requests the information described in the attachments to this memorandum. The attachments consist of: 1) data completeness worksheets covering the requirements specified in statute and regulations, and 2) requests for additional information needed for staff to complete its environmental analysis of the proposed project, which includes input from partner agencies who have a memorandum of understanding with the CEC to perform a related review for opt-in applications.

All the requested information is reasonably necessary to prepare an Environmental Impact Report as part of a CEC Staff Assessment and to support a decision on the application, including all the findings required in Chapter 6.2 of Division 15 of the Public Resources Code.

Staff asks the applicant to file the requested data in as few submittals as possible and project an estimate of when the remaining data can be provided. Since the data requested may take some time to fully assemble, staff would prefer responses to be held so that a complete response can be provided wherever possible (e.g., DR AQ-1).

Consistent with Public Resources Code, section 25545.4(c)(2) and California Code of Regulations, title 20, section 1878, upon receipt of all information responsive to this request, *accompanied by a statement from the Applicant that its response to this request for information is now complete and addresses all identified deficiencies*, CEC staff will finalize review of the information provided and document its determination regarding application completeness in a subsequent letter.

If you have any questions about the information identified as necessary to complete the application, please email Ann Crisp, project manager, at [ann.crisp@energy.ca.gov](mailto:ann.crisp@energy.ca.gov) and Lisa Worrall, co-project manager, at [lisa.worrall@energy.ca.gov](mailto:lisa.worrall@energy.ca.gov).

Cordially,



Drew Bohan  
Executive Director

#### Attachments

Attachment A: Data Completeness Worksheets for Title 20, Appendix B

Attachment B: Title 20, Data Requests

# **Attachment A**

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Data Completeness Worksheets  
for Title 20, Appendix B

**DATA COMPLETENESS WORKSHEET**

Completeness

Issue: Complete  Incomplete

Revision No. 0 Date: 12/11/2023

Technical Area: **Mandatory Opt-In Requirements** Project: Darden Clean Energy Project

Technical Staff: Various

Project Manager: Ann Crisp & Lisa Worrall

Docket: 23-OPT-02

Technical Senior: Eric Knight

OPT-IN STATUTES/ REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	COMPLETE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
<b>"FACILITY" OR "DISCRETIONARY PROJECT" DEFINITION MET</b>				
Cal. Code Regs., tit. 20, § 1877(b); Pub. Resources Code, § 25545(b)	Explanation of how the facility meets one or more of the definitions of "facility":	Appendix B, p. B-1 Chapter 2, p. 2-1	Yes	
Pub. Resources Code, § 25545(b)(1)	A solar photovoltaic or terrestrial wind electrical generating powerplant with generating capacity of 50 MW or more and any facilities appurtenant thereto.	Appendix B, p. B-1	Yes	
Pub. Resources Code, § 25545(b)(2)	An energy storage system as defined in Section 2835 of the Pub. Util. Code that can store 200 MWh or more of electrical energy.	Appendix B, p. B-1	Yes	
Pub. Resources Code, § 25545(b)(3)	A stationary electrical generating powerplant using any source of thermal energy, with a generating capacity of 50 MW or more, excluding any powerplant that burns, uses, or relies on fossil or nuclear fuels.	N/A	N/A	
Pub. Resources Code, § 25545(b)(4); Cal. Code Regs., tit. 20, § 1877(b)	A discretionary project that applicant has certified that a capital investment of at least \$250,000,000 will be made over a period of 5 years. Provide what the facility would manufacture, produce, or assemble, and how the facility's products or services would be used in the manufacture, production, or assembly of the following: a. Energy storage systems or component manufacturing, b. Wind systems or component manufacturing,	N/A	N/A	

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Project Manager: Ann Crisp & Lisa Worrall

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OPT-IN STATUTES/ REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	COMPLETE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	c. Solar photovoltaic energy systems or component manufacturing, or d. Specialized products, components, or systems that are integral to renewable energy or energy storage technologies.			
<b>REQUIREMENTS FOR COVERED PROJECT UNDER THE LABOR CODE</b>				
Cal. Code Regs., tit. 20, § 1877(c)	Certifications required by Public Resources Code sections 25545.3.3 and 25545.3.5.	Appendix G	Yes	
Pub. Resources Code, § 25545.3.3	Certification that the applicant will meet the requirements of a covered project and the commission shall make the requirements a condition of certification. Include the applicant's certification that either of the following is true:	Appendix G	Yes	
Pub. Resources Code, § 25545.3.3(a)	The entirety of the construction of the covered project is a public work.	N/A	N/A	N/A

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Pub. Resources Code, § 25545.3.3(b)	The construction of the covered project is not in its entirety a public work for which prevailing wages must be paid, but all construction workers employed on the project will be paid at least the general prevailing rate of per diem wages for the type of work and geographic area, pursuant the Labor Code sections 1773 and 1773.9, except that apprentices registered in programs approved by the Chief of the Division of Apprenticeship Standards may be paid at least the applicable apprentice prevailing rate. For portions of the project that are not a public work, all of the following apply:	Appendix G	Yes	
Pub. Resources Code, § 25545.3.3(b)(1)	Applicant ensures that the prevailing wage requirement is included in all contracts for the performance of all construction work.	Appendix G	Yes	
Pub. Resources Code, § 25545.3.3(b)(2)	Contractors and subcontractors must pay all construction workers employed in the construction of the project at least the general prevailing rate of per diem wages, except that apprentices registered in programs approved by the Chief of the Division of Apprenticeship Standards may be paid at least the applicable apprentice prevailing rate.	Appendix G	Yes	
Pub. Resources Code, § 25545.3.3(b)(3)	Contractors and subcontractors performing construction work on the project shall employ apprentices at no less than the ratio required in the Labor Code section 1777.5.	Appendix G	Yes	

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Pub. Resources Code, § 25545.3.3(b)(4)	Except as provided in (b)(6), all contractors and subcontractors performing construction work shall maintain and verify payroll records pursuant the Labor Code section 1776, make those records available for inspection and copying, and furnish those payroll records to the Labor Commissioner pursuant to the Labor Code section 1771.4.	Appendix G	Yes	
Pub. Resources Code, § 25545.3.3(b)(5)	Except as provided in (b)(6), the pay prevailing wage provisions listed within this section may be enforced by the Labor Commissioner through the issuance of a civil wage and penalty assessment pursuant to the Labor Code sections 1741, 1742, 1771.2, and 1742.1.	Appendix G	Yes	
Pub. Resources Code, § 25545.3.3(b)(6)	Paragraphs (b)(4) and (b)(5) do not apply if all contractors and subcontractors performing construction work on the project are subject to a project labor agreement. The project labor agreement shall include, but not be limited to, the following:	Appendix G	Yes	
Pub. Resources Code, § 25545.3.3(b)(6)(A)	Provisions requiring payment of prevailing wages to all construction workers employed in the construction of the project and for enforcement of that obligation through an arbitration procedure.	Appendix G	Yes	

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Pub. Resources Code, § 25545.3.3(b)(6)(B)	Targeted hiring provisions, including a targeted hiring plan, on a craft-by-craft basis to address job access for local, disadvantaged, or underrepresented workers, as defined by a relevant local agency.	Appendix G	Yes	
Pub. Resources Code, § 25545.3.3(b)(6)(C)	Apprenticeship utilization provisions that commit all parties to increasing the share of work performed by state-registered apprentices above the state-mandated minimum ratio required in the Labor Code section 1777.5.	Appendix G	Yes	
Pub. Resources Code, § 25545.3.3(b)(6)(D)	Apprenticeship utilization provisions that commit all parties to hiring and retaining a certain percentage of state-registered apprentices that have completed the Multi-Craft Core pre-apprenticeship training curriculum referenced in the Unemployment Insurance Code section 14005(t).	Appendix G	Yes	
Pub. Resources Code, § 25545.3.5	Certify that a skilled and trained workforce will be used to perform all construction work on the project and all of the following apply:	Appendix G	Yes	
Pub. Resources Code, § 25545.3.5(a)	Require in all contracts for the performance of work that every contractor and subcontractor at every tier will individually use a skilled and trained workforce to construct the project.	Appendix G	Yes	
Pub. Resources Code, § 25545.3.5(b)	Every contractor and subcontractor must use a skilled and trained workforce to construct the project.	Appendix G	Yes	

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OPT-IN STATUTES/ REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	COMPLETE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Pub. Resources Code, § 25545.3.5(c)	Except as provided in (e), contractors and subcontractors that fail to use a skilled and trained workforce shall be subject to the penalties provided in the Public Contract Code section 2603.	Appendix G	Yes	
Pub. Resources Code, § 25545.3.5(d)	Except as provided in (e), the applicant must retain records, including copies of monthly reports, that demonstrate compliance with the Public Contract Code section 2600 while the project or contract is being performed and for three years after completion of the project or contract. The applicant must submit these records immediately upon request of the commission. When submitted to the commission, these records shall be a public record under the California Public Records Act and shall be open to public inspection.	Appendix G	Yes	
Pub. Resources Code, § 25545.3.5(e)	(c) and (d) do not apply if all contractors and subcontractors performing work on the project are subject to a project labor agreement. The project labor agreement shall also include, but not be limited to, all of the following:	Appendix G	Yes	
Pub. Resources Code, § 25545.3.5(e)(1)	Provisions requiring compliance with the skilled and trained workforce requirement and for enforcement of that obligation through an arbitration procedure.	Appendix G	Yes	

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Pub. Resources Code, § 25545.3.5(e)(2)	Targeted hiring provisions, including a targeted hiring plan, on a craft-by-craft basis to address job access for local, disadvantaged, or underrepresented workers, as defined by a local agency.	Appendix G	Yes	
Pub. Resources Code, § 25545.3.5(e)(3)	Apprenticeship utilization provisions that commit all parties to increasing the share of work performed by state-registered apprentices above the state-mandated minimum ratio required in the Labor Code section 1777.5.	Appendix G	Yes	
Pub. Resources Code, § 25545.3.5(e)(4)	Apprenticeship utilization provisions that commit all parties to hiring and retaining a certain percentage of state-registered apprentices that have completed the Multi-Craft Core pre-apprenticeship training curriculum referenced in the Unemployment Insurance Code section 14005(t).	Appendix G	Yes	
<b>PERMIT APPLICATIONS SUBMITTED (LOCAL, STATE, AND FEDERAL)</b>				
Cal. Code Regs., tit. 2, § 1877(d)	A discussion of whether the applicant has submitted any local, state, or federal permit applications. For any required permit that has not yet been submitted to the relevant state agency, include a plan for submitting the application and any discussions that have occurred with the state agency with authority over the project.	Sections 5.1 to 5.17; Subsection 5.1.8; 5.2.7; 5.3.7; 5.4.7; 5.5.7; 5.6.8; 5.7.7; 5.8.7; 5.9.7; 5.10-5; 5.11.7; 5.12.7; 5.13.3; 5.14.7; 5.15.7; 5.16.7; and 5.17.7	No	See DR AQ-2; DR BIO-1 to BIO-4, and DR BIO-26; DR WATER-1 to DR WATER-3

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OPT-IN STATUTES/ REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	COMPLETE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
<b>IDENTIFICATION OF WHETHER SITE IS LOCATED AT A PROHIBITED AREA</b>				
Cal. Code Regs., tit. 2, § 1877(e)	Identify whether the project is, on a prohibited site as identified in Public Resources Code section 25527 or on a site designated by the California Coastal Commission under Public Resources Code section 30413(b) or on a site designated by the San Francisco Bay Conservation and Development Commission under Government Code section 66645(b). Include documentation of the approval of the public agency having ownership or control of the land.	Subsections 5.2.1.3 to 5.2.1.5, pp. 5.2-16 to 5.2-22	Yes	

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Technical Staff: Various

Project Manager: Ann Crisp & Lisa Worrall

Docket: 23-OPT-02

Technical Senior: Eric Knight

OPT-IN STATUTES/ REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	COMPLETE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Pub. Resources Code, § 25527	<p>The following areas of the state shall not be approved as a site for a facility, unless the commission finds that such use is not inconsistent with the primary uses of such lands and that there will be no substantial adverse environmental effects and the approval of any public agency having ownership or control of such lands is obtained:</p> <ol style="list-style-type: none"> <li>1. State, regional, county and city parks; wilderness, scenic or natural reserves; areas for wildlife protection, recreation, historic preservation; or natural preservation areas in existence on the effective date of this division.</li> <li>2. Estuaries in an essentially natural and undeveloped state.</li> </ol> <p>In considering applications for certification, the commission shall give the greatest consideration to the need for protecting areas of critical environmental concern, including, but not limited to, unique and irreplaceable scientific, scenic, and educational wildlife habitats; unique historical, archaeological, and cultural sites; lands of hazardous concern; and areas under consideration by the state or the United States for wilderness, or wildlife and game reserves.</p>	Subsection 5.2.1.5, p. 5.2-22	Yes	

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 Project Manager: Ann Crisp & Lisa Worrall Docket: 23-OPT-02 Technical Senior: Eric Knight

OPT-IN STATUTES/ REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	COMPLETE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
<b>NET POSITIVE ECONOMIC BENEFIT TO THE LOCAL GOVERNMENT</b>				
Cal. Code Regs., tit. 2, § 1877(f)	Identify preliminary information demonstrating overall net positive economic benefit to the local government that would have had permitting authority over the site and related facility, consistent with Public Resources Code section 25545.9. Staff must provide the submitted information to the local government for review and comment.	Subsection 5.6.3.2, pp. 5.6-25 to 5.6-30, 5.6-38 to 5.6-40; Appendix D, Attachment A, p. 1; Appendix M, Subsection J, pp. 45 to 48; Appendix B of Appendix M	Yes	
Cal. Code Regs., tit. 20 § 1879(a)(7); Pub. Resources Code § 25545.9	... economic benefits may include, but are not limited to the following: (a) Employment growth. (b) Housing development. (c) Infrastructure and environmental improvements. (d) Assistance to public schools and education. (e) Assistance to public safety agencies and departments. (f) Property taxes and sales and use tax revenues.	Appendix D, Attachment A, p. 1; Appendix M, Subsection J, pp. 45 to 48; Appendix B of Appendix M	Yes	
<b>LEGALLY BINDING ENFORCEABLE AGREEMENT(S) FOR COMMUNITY BENEFITS OF THE PROJECT</b>				
Cal. Code Regs., tit. 2, § 1877(g)	Discussion of applicant's plan or strategy, including a timeline for execution, to obtain legally binding and enforceable agreement(s) with, or that benefit, a coalition of one or more community-based organizations.	Appendix E	Yes	

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Completeness Issue: Complete \_\_\_\_\_ Incomplete  X  Revision No.  0  Date:  12/11/2023   
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 Project Manager:  Ann Crisp & Lisa Worrall  Docket:  23-OPT-02  Technical Senior:  Eric Knight

OPT-IN STATUTES/ REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	COMPLETE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
<b>ENVIRONMENTAL LEADERSHIP DEVELOPMENT PROJECT REQUIREMENTS</b>				
Cal. Code Regs., tit. 20, § 1877(h)	A discussion of whether the project meets the requirements of Public Resources Code sections 21183 and 21183.6.	Appendix D	Yes	
Pub. Resources Code § 21183(b)	The project creates high-wage, highly skilled jobs that pay prevailing wages and living wages, provides construction jobs and permanent jobs for Californians, helps reduce unemployment, and promotes apprenticeship training.	Appendix D, p. D-2; Appendix G	Yes	
Pub. Resources Code § 21183(c)	For a project described in Public Resources Code Section 21180(b)(1), (2), and (3), including a wind or solar energy project or a project that manufactures products, equipment, or components used for renewable energy generation, energy efficiency, or to produce clean alternative fuel vehicles, the project does not result in any net additional emission of greenhouse gases, including greenhouse gas emissions from employee transportation. A project is deemed to meet the requirements of this paragraph if the applicant demonstrates compliance with Public Resources Code section 21183.6.	Appendix D, p. D-2; Appendix N, Volume 1	No	See DR GHG-1 to DR GHG-4
Pub. Resources Code § 21183(d)	Demonstrates compliance with the requirements of recycling commercial solid waste and organic solid waste as required under Public Resources Code sections 42649 and 42649.8.	Appendix D, p. D-3	Yes	

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Pub. Resources Code § 21183(e)	Applicant entered into a binding and enforceable agreement that all mitigation measures required to certify the project under this chapter shall be conditions of approval of the project, and those conditions will be fully enforceable by the lead agency or another agency designated by the lead agency. In the case of environmental mitigation measures, the applicant agrees, that those measures will be monitored and enforced by the lead agency for the life of the obligation.	Appendix D, p. D-4	Yes	
Pub. Resources Code § 21183(f)	Applicant agrees to pay the costs of the trial court and the court of appeal in hearing and deciding any case challenging a lead agency's action on a certified project under this division...	Appendix D, p. D-5	Yes	
Pub. Resources Code § 21183(g)	Applicant agrees to pay the costs of preparing the record of proceedings for the project concurrent with review and consideration of the project under this division...	Appendix D, p. D-5	Yes	
Pub. Resources Code § 21183(h)	For a project for which environmental review has commenced, the applicant demonstrates that the record of proceedings is being prepared in accordance with Public Resources section 21186.	Appendix D, p. D-5	Yes	

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Pub. Resources Code § 21183.6(a)	The quantification and mitigation of the greenhouse gas emission impacts of a project described in 21180(b)(1), (2), or (3), including a wind or solar energy project or a project that manufactures products, equipment, or components used for renewable energy generation, energy efficiency, or to produce clean alternative fuel vehicles must be as follows:	--	--	--
Pub. Resources Code § 21183.6(a)(1)	The environmental baseline for greenhouse gas emissions must be established based upon the physical environmental conditions in the vicinity of the project site at the time the application is submitted.	Subsection 2.1.4; Appendix D, p. D-5; Appendix N	No	See DR GHG-1 to DR GHG-4
Pub. Resources Code § 21183.6(a)(2)	Demonstrate that the mitigation of the impacts resulting from the emissions of greenhouse gases are achieved in the following priority: 1. Direct emissions reductions from the project that also reduce emissions of criteria air pollutants or toxic air contaminants through implementation of project features, project design, or other measures, including, but not limited to, energy efficiency, installation of renewable energy electricity generation, and reductions in vehicle miles traveled. 2. The remaining unmitigated impacts shall be mitigated by direct emissions reductions that also reduce emissions of	Appendix D, p. D-5; Appendix N	No	See DR GHG-1 to DR GHG-4

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	<p>criteria air pollutants or toxic air contaminants within the same air pollution control district or air quality management district in which the project is located.</p> <p>3. The remaining unmitigated impacts shall be mitigated through the use of offsets that originate within the same air pollution control district or air quality management district in which the project is located. The offsets shall be undertaken in a manner consistent with the Health and Safety Code section 38500, including, but not limited to, the requirement that the offsets be real, permanent, quantifiable, verifiable, and enforceable, and shall be undertaken from sources in the community in which the project is located or in adjacent communities.</p> <p>4. The remaining unmitigated impacts shall be mitigated through the use of offsets that originate from sources that provide a specific, quantifiable, and direct environmental and public health benefit to the region in which the project is located.</p>			

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Completeness Issue:

Complete  Incomplete

Revision No. 0 Date: 12/11/2023

Technical Area: Air Quality

Project: Darden Clean Energy Project

Technical Staff: J. Record/Y. Ding

Project Manager: Ann Crisp & Lisa Worrall

Docket: 23-OPT-02

Technical Senior: Joseph Hughes

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	COMPLETE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Section 5.7, Subsection 5.7.3	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Section 5.7, Subsection 5.7.3	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	Section 5.7, Subsection 5.7.3	Yes	
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect, and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. Describe the approach, list or projection or a combination, used to develop the cumulative setting for the proposed project. Include any reference materials used such as general plan or other adopted local, regional, or statewide plan.	Section 5.7, Subsection 5.7.3	No	See DR AQ-11, DR AQ-12, and DR GHG-1 to DR GHG-4

**DATA COMPLETENESS WORKSHEET**

Completeness

Issue: Complete  Incomplete

Revision No. 0 Date: 12/11/2023

Technical Area: Air Quality

Project: Darden Clean Energy Project

Technical Staff: J. Record/Y. Ding

Project Manager: Ann Crisp & Lisa Worrall

Docket: 23-OPT-02

Technical Senior: Joseph Hughes

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	COMPLETE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (g) (8) (A)	The information necessary for the air pollution control district where the project is located to complete a Determination of Compliance.	Appendix N, Volume 1	No	See DR AQ-1 and DR AQ-2
Appendix B (g) (8) (B)	The heating value and chemical characteristics of the proposed fuels, the stack height and diameter, the exhaust velocity and temperature, the heat rate and the expected capacity factor of the proposed facility.	Section 5.7	No	See DR AQ-3
Appendix B (g) (8) (C)	A description of the control technologies proposed to limit the emission of criteria pollutants.	Section 5.7, Subsection 5.7.3	No	See DR AQ-4
Appendix B (g) (8) (D)	A description of the cooling system, the estimated cooling tower drift rate, the rate of water flow through the cooling tower, and the maximum concentrations of total dissolved solids.	N/A	N/A	N/A
Appendix B (g) (8) (E)	The emission rates of criteria pollutants and greenhouse gases (CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, and SF <sub>6</sub> ) from the stack, cooling towers, fuels and materials handling processes, delivery, and storage systems, and from all on-site secondary emission sources.	Appendix N, Volume 1	No	See DR AQ-5
Appendix B (g) (8) (F)(i)	A description of typical operational modes, and start-up and shutdown modes for the proposed project, including the estimated frequency of occurrence and duration of each mode, and estimated emission rate for each criteria pollutant during each mode.	Section 5.7 Subsections 5.7.1 and 5.7.3; Appendix N, Volume 1	No	See DR AQ-6, DR AQ-7; DR-GHG-5 to DR GHG-7

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Revision No. 0 Date: 12/11/2023

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SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	COMPLETE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (g) (8) (F)(ii)	A description of the project’s planned initial commissioning phase, which is the phase between the first firing of emissions sources and the commercial operations date, including the types and durations of equipment tests, criteria pollutant emissions, and monitoring techniques to be used during such tests.	N/A	N/A	N/A
Appendix B (g) (8) (G)	The ambient concentrations of all criteria pollutants for the previous three years as measured at the three Air Resources Board certified monitoring stations located closest to the project site, and an analysis of whether this data is representative of conditions at the project site. The applicant may substitute an explanation as to why information from one, two, or all stations is either not available or unnecessary.	Section 5.7, Subsection 5.7.3; Appendix N, Volume 1	Yes	
Appendix B (g) (8) (H)	One year of meteorological data collected from either the Federal Aviation Administration Class 1 station nearest to the project or from the project site, or meteorological data approved by the California Air Resources Board or the local air pollution control district.	Section 5.7, Subsection 5.7.3; Appendix N, Volume 1	Yes	

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Appendix B (g) (8) (H) (i)	If the data is collected from the project site, the applicant shall demonstrate compliance with the requirements of the U.S. Environmental Protection Agency document entitled "On-Site Meteorological Program Guidance for Regulatory Modeling Applications" (EPA - 450/4-87-013 (August 1995)), which is incorporated by reference in its entirety.	Section 5.7, Subsection 5.7.3; Appendix N, Volume 1	Yes	
Appendix B (g) (8) (H) (ii)	The data shall include quarterly wind tables and wind roses, ambient temperatures, relative humidity, stability and mixing heights, upper atmospheric air data, and an analysis of whether this data is representative of conditions at the project site.	Appendix N Modeling Data files	Yes	
Appendix B (g) (8) (I)	An evaluation of the project's direct and cumulative air quality impacts, consisting of:	--	--	--
Appendix B (g) (8) (I) (i)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct criteria pollutant impacts of project construction activities on ambient air quality conditions, including fugitive dust (PM <sub>10</sub> ) emissions from grading, excavation and site disturbance, as well as the combustion emissions [nitrogen oxides (NO <sub>x</sub> ), sulfur dioxide (SO <sub>2</sub> ), carbon monoxide (CO), and particulate matter less than 10 microns in diameter (PM <sub>10</sub> ) and particulate matter less than 2.5 microns in	Section 5.7, Subsections 5.7.1.2 and 5.7.3; Appendix N, Volume 1, Modeling Data files	No	See DR AQ-11

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SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	COMPLETE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	diameter (PM2.5) from construction-related equipment;			
Appendix B (g) (8) (I) (ii)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct criteria pollutant (NO <sub>x</sub> , SO <sub>2</sub> , CO, PM <sub>10</sub> , and PM <sub>2.5</sub> ) impacts on ambient air quality conditions of the project during typical (normal) operation, and during shutdown and startup modes of operation. Identify and include in the modeling of each operating mode the estimated maximum emissions rates and the assumed meteorological conditions;	Section 5.7, Subsection 5.7.3.2	No	See DR AQ-11 and DR AQ-12
Appendix B (g) (8) (I) (iii)	A protocol for a cumulative air quality modeling impacts analysis of the project's typical operating mode in combination with other stationary emissions sources within a 6-mile radius that have received construction permits but are not yet operational or are in the permitting process. The cumulative inert pollutant impact analysis should assess whether estimated emissions concentrations will cause or contribute to a violation of any ambient air quality standard; and	Section 5.7, Subsection 5.7.3.2	Yes	
Appendix B (g) (8) (I) (iv)	An air dispersion modeling analysis of the impacts of the initial commissioning phase emissions on state and federal ambient air quality standards for NO <sub>x</sub> , SO <sub>2</sub> , CO, PM <sub>10</sub> , and PM <sub>2.5</sub> .	Section 5.7, Subsection 5.7.3.2, Table 5.7-8	No	See DR AQ-11 and DR AQ-12

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Revision No. 0 Date: 12/11/2023

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Project: Darden Clean Energy Project

Technical Staff: J. Record/Y. Ding

Project Manager: Ann Crisp & Lisa Worrall

Docket: 23-OPT-02

Technical Senior: Joseph Hughes

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Appendix B (g) (8) (J)	If an emission offset strategy is proposed to mitigate the project's impacts under (g)(1), provide:	--	--	--
Appendix B (g) (8) (J) (i)	The quantity of offsets or emission reductions that are needed to satisfy air permitting requirements of local permitting agencies (such as the air district), state and federal oversight air agencies, and the California Energy Commission. Identify by criteria air pollutant, and if appropriate, greenhouse gas; and	Section 5.7, Subsection 5.7.5.3, Table 5.7-12	No	See DR AQ-8 to DR AQ-10
Appendix B (g) (8) (J) (ii)	Potential offset sources, including location, and quantity of emission reductions;	Section 5.7, Subsection 5.7.5.3, Table 5.7-12	No	See DR AQ-8 to DR AQ-10
Appendix B (g) (8) (K)	A detailed description of the mitigation, if any, which an applicant may propose, for all projects impacts from criteria pollutants that currently exceed state or federal ambient air quality standards but are not subject to offset requirements under the district's new source review rule.	Section 5.7, Subsection 5.7.5.3, Table 5.7-12	No	See DR AQ-8 to DR AQ-10
Appendix B (i) (1) (A)	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 5.7, Subsection 5.7.5, Table 5.7-14	Yes	

**DATA COMPLETENESS WORKSHEET**

Completeness Issue: Complete  Incomplete  Revision No. 0 Date: 12/11/2023  
 Technical Area: Air Quality Project: Darden Clean Energy Project Technical Staff: J. Record/Y. Ding  
 Project Manager: Ann Crisp & Lisa Worrall Docket: 23-OPT-02 Technical Senior: Joseph Hughes

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	COMPLETE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (i) (1) (B)	Tables that identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.	Section 5.7, Subsection 5.7.6, Table 5.7-16	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.	Section 5.7, Subsection 5.7.6, Table 5.7-16	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission, if any, will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.7, Subsection 5.7.7	Yes	

Completeness

Issue: Complete  X  Incomplete \_\_\_\_\_

Technical Area:  Alternatives

Project Manager:  Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project:  Darden Clean Energy Project

Docket:  23-OPT-02

Revision No.  0  Date:  12/11/2023

Technical Staff:  Jeanine Hinde

Technical Senior:  Steven Kerr

<b>SITING REGULATIONS</b>	<b>INFORMATION</b>	<b>APPLICATION PAGE NUMBER AND SECTION NUMBER</b>	<b>ADEQUATE YES OR NO</b>	<b>INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS</b>
Appendix B (f) (1)	A discussion of the range of reasonable alternatives to the project, or to the location of the project, including the no project alternative, which would feasibly attain most of the basic objectives of the project but would avoid or substantially lessen any of the significant effects of the project, and an evaluation of the comparative merits of the alternatives. In accordance with Public Resources Code section 25540.6(b), a discussion of the applicant's site selection criteria, any alternative sites considered for the project, and the reasons why the applicant chose the proposed site.	Chapter 6, pp. 6-1 to 6-24	Yes	
Appendix B (f) (2)	An evaluation of the comparative engineering, economic, and environmental merits of the alternatives discussed in (f)(1).	Chapter 6, pp. 6-4 to 6-24	Yes	

Completeness Issue:

Complete  Incomplete

**DATA COMPLETENESS WORKSHEET**

Revision No. 0 Date: 12/11/2023

Technical Area: Biological Resources

Project: Darden Clean Energy Project

Technical Staff: C. Watson & A. Stroud, CDFW (J. Vang)

Project Manager: Ann Crisp & Lisa Worrall

Docket: 23-OPT-02

Technical Senior: Eric Knight

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Cal. Code Regs. Tit. 20 § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Section 5.2; Appendix U, Vols. 1 to 3; Appendix Q, Vols. 1 to 3; Appendix V	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Section 5.2; Appendix U, Vols. 1 to 3; Appendix Q, Vols. 1 to 3; Appendix V	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	Section 5.12; Appendix U; Appendix V; Appendix Q, Vols. 1 to 3	Yes	
[OPT-IN ONLY] Cal. Code Regs., tit. 20, § 1877 (a)	If the applicant is seeking incidental take authorization as described in California Fish and Game Code section 2081(b), the application shall include the information required in California Code of Regulations, title 14, section 783.2(a)(1)-(a)(10). If the applicant is seeking lake and streambed alteration authorization under Fish and Game Code section 1602, the application shall include the information required in California Fish and Game Code section 1602(a)(1)(A)-(F).	Appendix U, Vols. 1 to 3	No	See DR BIO-1 to DR BIO-4
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect, and cumulative impacts due to the construction, operation and maintenance of the project, the	Chapter 2, Section 2.4; Section 5.12; Appendix Q Vols. 1 to 3; Appendix U Vols. 1 to 3; Appendix V	No	See DR BIO-5 to DR BIO-7

**DATA COMPLETENESS WORKSHEET**

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Complete  Incomplete

Revision No. 0 Date: 12/11/2023

C. Watson & A. Stroud,  
CDFW (J. Vang)

Technical Area: Biological Resources

Project: Darden Clean Energy Project

Technical Staff:

Project Manager: Ann Crisp & Lisa Worrall

Docket: 23-OPT-02

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SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. Describe the approach, list or projection or a combination, used to develop the cumulative setting for the proposed project. Include any reference materials used such as general plan or other adopted local, regional, or statewide plan.			
Appendix B (g) (13) (A)	A regional overview and discussion of terrestrial and aquatic biological resources, with particular attention to sensitive biological resources within 10 miles of the project. In the discussion include a list of the USGS topographic quadrangle(s) utilized to search records from the California Natural Diversity Database (CNDDDB), and a citation which includes the date the CNDDDB was accessed. Include a map at a scale of 1:6,000 (under confidential cover) and at 1:350,000 (for public) showing sensitive biological resource location(s) in relation to the project site and related facilities and any boundaries of a local Habitat Conservation Plan or similar open space land use plan or designation. Label the biological resources and survey areas as well as the project facilities. Sensitive biological resources include:	Section 5.12; Appendix Q, Vols. 1 to 3; Appendix R (Confidential)	No	DR BIO-9 to DR BIO-11

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Technical Staff: C. Watson & A. Stroud, CDFW (J. Vang)

Project Manager: Ann Crisp & Lisa Worrall

Docket: 23-OPT-02

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<b>SITING REGULATIONS</b>	<b>INFORMATION</b>	<b>APPLICATION PAGE NUMBER AND SECTION NUMBER</b>	<b>ADEQUATE YES OR NO</b>	<b>INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS</b>
Appendix B (g) (13) (A) (i)	species listed under state or federal Endangered Species Acts;	Section 5.12; Appendix Q, Vols. 1 to 3; Appendix R (Confidential)	Yes	
Appendix B (g) (13) (A) (ii)	species receiving consideration during environmental review under CEQA Guidelines Section 15380;	Section 5.12; Appendix Q, Vols. 1 to 3; Appendix R (Confidential)	Yes	
Appendix B (g) (13) (A) (iii)	species identified as state Fully Protected;	Section 5.12; Appendix Q (Vols. 1 to 3; Appendix R (Confidential)	Yes	
Appendix B (g) (13) (A) (iv)	species covered by Migratory Bird Treaty Act;	Section 5.12; Appendix Q, Vol 1 to 3; Appendix R (Confidential)	Yes	
Appendix B (g) (13) (A) (v)	species and habitats identified by local, state, and federal agencies as needing protection, including but not limited to those identified by the CNDDDB, California Fish and Game Code, Title 14 of the California Code of Regulations, or where applicable, in Local Coastal Programs or in relevant decisions of the California Coastal Commission or other responsible agency;	Section 5.12; Appendix Q, Vols. 1 to 3; Appendix R (Confidential)	Yes	
Appendix B (g) (13) (A) (vi)	locally significant species that are rare or uncommon in a local context such as county or region or is so designated in local or regional plans, policies, or ordinances;	Section 5.12; Appendix Q, Vol 1 to 3; Appendix R (Confidential)	Yes	
Appendix B (g) (13) (A) (vii)	plant species listed as rare under the California Native Plant Protection Act;	Section 5.12; Appendix Q, Vols. 1 to 3; Appendix R (Confidential)	Yes	
Appendix B (g) (13) (A) (viii)	established native resident or migratory wildlife corridors or wildlife nursery sites.	Section 5.12; Appendix Q, Vol. 1	Yes	

Completeness

Issue: Complete  Incomplete

**DATA COMPLETENESS WORKSHEET**

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Appendix B (g) (13) (B)	Include a list of the species and habitat(s) observed and those with a potential to occur within 1 mile of the project site and 1,000 feet from the outer edge of linear facility corridors. Maps or aerial photographs shall include the following:	Section 5-12, Table 5.12-1; Appendix Q, Vol. 1, Table 2	No	See DR BIO-12 to DR BIO-17
Appendix B (g) (13) (B) (i)	Detailed maps at a scale of 1:6,000 or color aerial photographs taken at a recommended scale of 1-inch equals 500 feet (1:6,000) with a 30 percent overlap (provided under confidential cover) and 1:350,000 (for public viewing) that show the proposed project site and related facilities, biological resources including, but not limited to, those found during project-related field surveys and in records from the CNDDDB, and the associated areas where biological surveys were conducted. Label the biological resources and survey areas as well as the project facilities;	Section 5.12; Appendix Q, Vol. 1 Section 3.2; Appendix R (Confidential)	No	See DR BIO-18 and DR BIO-19
Appendix B (g) (13) (B) (ii)	Provide an aerial map of the isopleth graphic depicting modeled nitrogen deposition rates. The geographical extent of the nitrogen deposition map(s) should include the entire plume and a radius of 6 (six) miles from the source, specifically identifying acres of sensitive habitat(s) within each isopleth Modeling parameters and files shall be provided.	Cover Letter and CEC Opt-in Application Crosswalk Matrix, Table 1; Section 5.12	No	See DR BIO-20
Appendix B (g) (13) (B) (iii)	An aerial photo depicting state and federal jurisdictional features including state waters and	Section 5.12; Appendix Q, Vols. 2 and 3	Yes	

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SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	<p>wetlands delineated on maps at a scale of (1:2,400) showing any potential jurisdictional features delineated out to 250 feet from the edge of disturbance if wetlands occur within 250 feet of the project site and/or related facilities that would be included with the U.S. Army Corps of Engineers Section 404 Permit application, Regional Water Quality Control Board (RWQCB) application, or California Department of Fish and Wildlife Section 1600 et seq. permit requirements. For projects proposed to be located within the coastal zone, also provide aerial photographs or maps as described above that identify wetlands as defined by the Coastal Act and under the jurisdiction of the California Coastal Commission.</p>			
Appendix B (g) (13) (B) (iv)	<p>Provide Geographic Information System (GIS) data (shape and/or geodatabase files) for all data mapped for biological resources.</p>	Kiteworks	No	See DR-BIO-21
Appendix B (g) (13) (C)	<p>A discussion of the biological resources at the proposed project site and related facilities. Related facilities include, but are not limited to, laydown and parking areas, gas and water supply pipelines, transmission lines, and roads. The discussion shall address the distribution of vegetation community types, denning or nesting sites, population concentrations, migration corridors, breeding habitats, and other</p>	Section 5.12; Appendix Q, Vols. 1 to 3; Appendix U, Vols. 1 to 3; Appendix V	No	See DR BIO-22

Completeness

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SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	appropriate biological resources including the following:			
Appendix B (g) (13) (C) (i)	A list of sensitive species and habitats with a potential to occur (defined in (A) above) and include status (state, federal, California Native Plant Society, global rank, state rank, etc.)	Section 5.12; Appendix Q, Vols. 1 to 3	Yes	
Appendix B (g) (13) (C) (iii)	Perform nitrogen deposition modeling including the complete citation for references used in determining deposition rates and location. Specify the amount of total annual nitrogen deposition in kilograms of nitrogen per hectare per year (kg N/ha/yr) in special status species habitats and vegetation types for wet and dry deposition. Describe habitat and species potentially affected.	Cover Letter and CEC Opt-in Application Crosswalk Matrix, Table 1; Section 5.12	No	See DR BIO-20
Appendix B (g) (13) (D)	A description and results of all field studies and specialized surveys (e.g., focused and protocol) used to provide biological baseline information about the project site and associated facilities. Include copies of the CNDDDB records and field survey forms completed by the applicant's biologist(s). Identify the date(s) the surveys were completed, methods used to complete the surveys, and the name(s) and qualifications of the biologists conducting the surveys. Include:	Section 5.12; Appendix Q, Vol. 1; Appendix U, Vols. 1 to 3; Appendix V	No	See DR BIO-23
Appendix B (g) (13) (D) (i)	Current biological resources surveys conducted using appropriate field survey protocols (include references) during the appropriate season(s). State and federal agencies with jurisdiction shall	Section 5.12; Appendix U, Vols. 1 to 3; Appendix V	No	See DR BIO-24 and DR BIO-25

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	be consulted for field survey protocol guidance prior to surveys if a protocol exists;			
Appendix B (g) (13) (D) (ii)	If the project or any related facilities could impact federal or state jurisdictional wetland, provide completed Army Corps of Engineers wetland delineation forms or determination of wetland status pursuant to Coastal Act or CEFW requirements, as applicable to the location, name(s) and qualifications of biologist(s) completing the delineation, the results of the delineation and a table showing jurisdictional features including state waters and wetland acreage amounts to be impacted.	Appendix Q, Vols. 2 to 3 (Appendix Q-9), and Appendix Q, Vol. 3 (Appendix Q-10)	No	See DR BIO-26
Appendix B (g) (13) (E)	Impacts discussion of all impacts (direct, indirect, and cumulative) to biological resources from project site preparation, construction activities, plant operation, maintenance, closure, and decommissioning. Discussion shall also address sensitive species habitat impacts from air emissions (i.e., nitrogen deposition);	Chapter 3, Subsection 3.2; Section 5.12; Appendix Q, Vols. 1 to 3; Appendix U, Vols. 1 to 3	No	See DR BIO-27 to DR BIO-35
Appendix B (g) (13) (F)	A discussion of all feasible mitigation measures and an evaluation of their anticipated efficacy in reducing the level of impacts, including, but not limited to the following:	Chapter 2, Section 2.4; Section 5.12, Subsection 5.12.3.2; Appendix V	No	See DR BIO-36 to DR BIO-38
Appendix B (g) (13) (F) (i)	All measures proposed to avoid and/or reduce adverse impacts to biological resources;	Chapter 2, Section 2.4; Chapter 3, Section 3.2; Section 5.12; Appendix V, Appendix D, Sections 3 to 7	No	See DR BIO-39 to DR BIO-43

Completeness

Issue: Complete  Incomplete

**DATA COMPLETENESS WORKSHEET**

Revision No. 0 Date: 12/11/2023

Technical Area: Biological Resources

Project: Darden Clean Energy Project

Technical Staff: C. Watson & A. Stroud, CDFW (J. Vang)

Project Manager: Ann Crisp & Lisa Worrall

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Technical Senior: Eric Knight

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (g) (13) (F) (ii)	All off-site habitat mitigation such as habitat improvement or compensation including management, and an identification of appropriate agency contacts for coordination and verification of proposed habitat mitigation measures;	Section 5.12	No	See DR BIO-44
Appendix B (g) (13) (F) (iii)	Educational programs to enhance employee awareness during construction and operation to protect biological resources.	Section 5, Subsection 5.1.2.2, pp. 69-70; Section 5.12; Appendix Q Vol. 1,	Yes	
Appendix B (g) (13) (G)	A discussion of compliance and monitoring programs to ensure the effectiveness of impact avoidance and mitigation measures incorporated into the project.	Section 5; Section 5.12; Appendix Q Vol. 1	No	See DR BIO-7 and DR BIO-47
Appendix B (g) (13) (H)	Submit copies of any preliminary correspondence between the project applicant and state and federal resource agencies regarding whether federal or state permits from other agencies such as the U.S. Fish and Wildlife Service, the National Marine Fisheries Service, the U.S. Army Corps of Engineers, the CDFW, and the RWQCB will be required for the proposed project.	Section 5.12	No	See DR BIO-45
Appendix B (i) (1) (A)	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or	Section 5.12, Table 5.12-2; Subsection 5.12.5.1 to 5.12.5.3	No	See DR BIO-46 and DR BIO-47

**DATA COMPLETENESS WORKSHEET**

Completeness

Issue: Complete  Incomplete

Revision No. 0 Date: 12/11/2023

C. Watson & A. Stroud,  
CDFW (J. Vang)

Technical Area: Biological Resources

Project: Darden Clean Energy Project

Technical Staff:

Project Manager: Ann Crisp & Lisa Worrall

Docket: 23-OPT-02

Technical Senior: Eric Knight

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	standard during both construction and operation of the facility is discussed; and			
Appendix B (i) (1) (B)	Tables that identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.	Section 5.12, Table 5.12-2	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.	Section 5.12, Table 5.12-3	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.12, Subsection 5.12.7	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

Technical Area: Cultural Res./Tribal Cult. Res.

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: P. Riordan, C. Travis

Technical Senior: Gabriel Roark

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Section 5.1; Appendix I-1 (Confidential)	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Section 5.1; Appendix I-1 (Confidential)	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	Section 5.1, pp. 5.1-45 to 5.1-51	No	See DR CUL/TRI-1 to DR CUL/TRI-6
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect, and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. Describe the approach, list or projection or a combination, used to develop the cumulative setting for the proposed project. Include any reference materials used such as general plan or other adopted local, regional, or statewide plan.	Section 5.1, pp. 5.1-29 to 5.1-41 and 5.1-35 to 5.1-41; Appendix I-1, Subsection 3.1, p. 22 (Confidential)	Yes	
Appendix B (g) (2)	Cultural resources and tribal cultural resources together comprise objects, buildings, structures, sites, features, areas, places,	--	--	--

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

Technical Area: Cultural Res./Tribal Cult. Res.

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: P. Riordan, C. Travis

Technical Senior: Gabriel Roark

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	records, sacred places, cultural landscapes, or manuscripts, all of which may have significance according to criteria outlined in sections 21074 and 21084.2 of the Public Resources Code.			
Appendix B (g) (2) (A)	A summary of the ethnology, prehistory, and history of the region with emphasis on the area within no more than a 5-mile radius of the project location. This regional summary must address the potential for buried cultural resources and tribal cultural resources to occur in the project area. The summary, together with literature search results, must inform the field methods employed for identifying cultural resources and tribal cultural resources in the project area.	Section 5.1, pp. 5.1-1 through 5.1-10; Appendix I-1, Vol. 1, Subsections 3.2 and 5.5 (Confidential)	Yes	
Appendix B (g) (2) (B)	The results of a literature search to identify cultural resources and tribal cultural resources within an area not less than a 1-mile radius around the project site and not less than one-quarter (0.25) mile on each side of the linear facilities. Identify any cultural resources or tribal cultural resources listed pursuant to ordinance by a city or county or recognized by any local historical or archaeological society or museum. Literature searches to identify the above cultural resources and tribal cultural resources must be completed by, or under the direction of, individuals who meet the Secretary of the Interior's Professional Standards for the technical area addressed.	Sections 5.1.2.3 and 5.1.2.4, pp. 5.1-16 to 5.1-28; Appendix I-1, Vols. 1 to 10 (Confidential)	No	See DR CUL/TRI-7 and DR CUL/TRI-8

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

Technical Area: Cultural Res./Tribal Cult. Res.

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: P. Riordan, C. Travis

Technical Senior: Gabriel Roark

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	Copies of California Department of Parks and Recreation (DPR) 523 forms (Title 14 CCR section 4853) shall be provided for all cultural resources and tribal cultural resources (ethnographic, architectural, historical, and archaeological) identified in the literature search as being 45 years or older or of exceptional importance as defined in the National Register Bulletin Guidelines, (36CFR60.4(g)). A copy of the USGS 7.5-minute quadrangle map of the literature search area delineating the areas of all past surveys and noting the California Historical Resources Information System (CHRIS) identifying number shall be provided. Copies also shall be provided of all technical reports whose survey coverage is wholly or partly within 0.25 mile of the area surveyed for the project under section (g)(2)(C), or which report on any archaeological excavations or architectural surveys within the literature search area.			
Appendix B (g) (2) (C)	The results of new cultural resource and tribal resource surveys or surveys less than 5 years old shall be provided if survey records of the area potentially affected by the project are more than 5 years old. Surveys to identify new cultural resources and tribal cultural resources must be completed by (or under the direction of) individuals who meet the Secretary of the Interior's Professional Standards for the technical area addressed.	Sections 5.1.2.3 and 5.1.2.4, pp. 5.1-16 to 5.1-28; Appendix I-1, pp. 38, 39, 54 to 86, Figure 9 (Confidential); Appendix I-3 (Confidential)	No	See DR CUL/TRI-9 to DR CUL/TRI-15

Completeness

Issue: Complete  Incomplete

Technical Area: Cultural Res./Tribal Cult. Res.

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: P. Riordan, C. Travis

Technical Senior: Gabriel Roark

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	<p>New pedestrian archaeological surveys shall be conducted inclusive of the project site and project linear facility routes, extending to no less than 200 feet around the project site, substations and staging areas, and to no less than 50 feet to either side of the right-of-way of project linear facility routes.</p> <p>New historic architecture field surveys in rural areas shall be conducted inclusive of the project site and the project linear facility routes, extending no less than 0.5 mile out from the proposed plant site and from the routes of all above-ground linear facilities. New historic architecture field surveys in urban and suburban areas shall be conducted inclusive of the project site, extending no less than one parcel's distance from all proposed plant site boundaries. New historic architecture field reconnaissance ("windshield survey") in urban and suburban areas shall be conducted along the routes of all linear facilities to identify, inventory, and characterize structures and districts that appear to be older than 45 years or that are exceptionally significant, whatever their age.</p> <p>A technical report of the results of the new surveys, conforming to the Archaeological Resource Management Report format (CA Office of Historic Preservation Feb 1990), which</p>			

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

Technical Area: Cultural Res./Tribal Cult. Res.

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: P. Riordan, C. Travis

Technical Senior: Gabriel Roark

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	<p>is incorporated by reference in its entirety, shall be separately provided and submitted (under confidential cover if archaeological resource or other sensitive resource locations are included).</p> <p>Information included in the technical report shall also be provided in the application, other sensitive resources, or areas of religious significance) shall be submitted under a request for confidentiality pursuant to California Code of Regulations, title 20, section 2501 et seq. At a minimum, the technical report shall include:</p>			
Appendix B (g) (2) (C) (i)	The summary from Appendix B (g)(2)(A) and the literature search results from Appendix B (g)(2)(B);	Appendix I-1, pp. 21 to 35 (Confidential)	Yes	
Appendix B (g) (2) (C) (ii)	The survey procedures and methodology used to identify cultural and tribal cultural resources and a discussion of the cultural and tribal resources identified by the survey;	Appendix I-1, pp. 37 to 39 and 41 to 86 (Confidential)	Yes	
Appendix B (g) (2) (C) (iii)	Copies of all new and updated DPR 523(A) forms. If a cultural resource or tribal cultural resource may be impacted by the project, also include the appropriate DPR 523 detail form for each such resource;	Appendix I-1 (Confidential)	No	See DR CUL/TRI-16
Appendix B (g) (2) (C) (iv)	A map at a scale of 1:24,000 (U.S. Geological Survey topographic quadrangle) depicting the locations of all previously known and newly identified cultural and tribal cultural resources compiled through the research required by	Appendix I-1, pp. 80 to 86 (Confidential)	Yes	

Completeness

Issue: Complete  Incomplete

Technical Area: Cultural Res./Tribal Cult. Res.

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: P. Riordan, C. Travis

Technical Senior: Gabriel Roark

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	Appendix B (g)(2)(B) and Appendix B (g)(2)(C) (ii); and			
Appendix B (g) (2) (C) (v)	The names and qualifications of the cultural resources specialists who contributed to and were responsible for literature searches, surveys, and preparation of the technical report.	Appendix I-1, pp. 12 and 37 to 39 (Confidential)	Yes	
Appendix B (g) (2) (D) (i)	A copy of the applicant's request to the Native American Heritage Commission (NAHC) for information on Native American sacred sites and lists of Native Americans interested in the project vicinity, and copies of any correspondence received from the NAHC.	Appendix I-2, Vol. 11 (Confidential)	Yes	
Appendix B (g) (2) (D) (ii)	A copy of all correspondence sent to Native American individuals and groups listed by the NAHC and copies of all responses. Notification to Native Americans shall include a project description and map.	Appendix I-2, Vol. 11 (Confidential)	Yes	
Appendix B (g) (2) (D) (iii)	A written summary of any oral responses.	Appendix I-2, Vol. 11 (Confidential)	Yes	
Appendix B (g) (2) (E)	Include in the discussion of proposed mitigation measures required by (g)(1):	Section 5.1, pp. 5.1-31 to 5.1-41	Yes	
Appendix B (g) (2) (E) (i)	A discussion of measures proposed to mitigate project impacts to known cultural and tribal cultural resources;	Section 5.1, pp. 5.1-33, 5.1-35 to 5.1-37	Yes	
Appendix B (g) (2) (E) (ii)	A set of contingency measures proposed to mitigate potential impacts to previously unknown cultural and tribal cultural resources and any unanticipated impacts to known cultural or tribal cultural resources; and	Section 5.1, pp. 5.1-35 to 5.1-40; Appendix I-1, pp. 88 to 91 (Confidential)	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

Technical Area: Cultural Res./Tribal Cult. Res.

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: P. Riordan, C. Travis

Technical Senior: Gabriel Roark

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (g) (2) (E) (iii)	Educational programs to enhance employee awareness during construction and operation to protect cultural and tribal cultural resources.	Section 5.1, p. 5.1-36; Appendix I-1, p. 90 (Confidential)	Yes	
Appendix B (i) (1) (A)	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 5.1, p. 5.1-42	Yes	
Appendix B (i) (1) (B)	Tables that identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.	Section 5.1, p. 5.1-44	No	See DR CUL/TRI-17
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.	Section 5.1, pp. 5.1-28 and 5.1-44	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.1, p. 5.1-44	Yes	

Completeness

Issue: Complete  X  Incomplete \_\_\_\_\_

Technical Area: **Efficiency, Energy and Energy Resources**

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Revision No.  0  Date:  12/11/2023

Project: Darden Clean Energy Project

Technical Staff: Kenneth Salyphone

Docket: 23-OPT-02

Technical Senior: Shahab Khoshmashrab

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Chapter 4, Section 4.4	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	N/A	N/A	N/A
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	N/A	N/A	N/A
Appendix B (h) (4) (A)	Heat and mass balance diagrams for design conditions for each mode of operation.	N/A	N/A	N/A
Appendix B (h) (4) (B)	Annual fuel consumption in BTUs for each mode of operation, including hot restarts and cold starts.	N/A	N/A	N/A
Appendix B (h) (4) (C)	Annual net electrical energy produced in MWh for each mode of operation including starts and shutdowns.	Chapter 4, Section 4.4, p. 4-9	Yes	
Appendix B (h) (4) (D)	Number of hours the plant will be operated in each design condition in each year.	Chapter 4, Section 4.2, Subsection 4.4.3, p. 4-10	Yes	
Appendix B (h) (4) (E)	If the project will be a cogeneration facility, calculations showing compliance with applicable efficiency and operating standards.	N/A	N/A	N/A
Appendix B (h) (4) (F)	A discussion of alternative generating technologies available for the project, including the projected efficiency of each, and an	Chapter 6, p. 6-1	Yes	

Completeness

Issue: Complete  X  Incomplete

Technical Area: **Efficiency, Energy and Energy**

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No.  0  Date:  12/11/2023

Technical Staff: Kenneth Salyphone

Technical Senior: Shahab Khoshmashrab

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	explanation why the chosen equipment was selected over these alternatives.			
Appendix B (i) (1) (A)	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	N/A	N/A	N/A
Appendix B (i) (1) (B)	Tables that identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.	N/A	N/A	N/A
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.	N/A	N/A	N/A
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	N/A	N/A	N/A

Completeness

Issue: Complete  Incomplete

Technical Area: Executive Summary

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Various

Technical Senior: Eric Knight

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Chapters 1, 2, and 4; Sections 2.1 to 2.7; 4.2, 4.5; 5.1 to 5.11, and 5.13 to 5.17; Subsections 4.1.1, 4.2.2, 4.2.3.1, 4.2.3.2; 5.2.3.1, 5.2.3.2, 5.3.3.1, 5.3.3.2, 5.4.3, 5.5.1.4 to 5.5.4, 5.6.3.1, 5.7.3, 5.8.1, 5.9.3.2, 5.10.2, 5.11.3, 5.14.3, 5.15.3.1, 5.16.3.1, 5.17.2, 5.17.3, 5.17.3.1, and 5.17.3.2; p. 5.2-51, 5.4-16 to 5.4-37, 5.5-54 to 5.5-67, 5.6-17 to 5.6-19, 5.9-16; 5.10-1, 5.11-11 to 5.11-16, 5.14-17 to 5.14-25, 5.15-8 to 5.15-9, 5.16-29, and 5.17-8 to 5.17-9; Tables 5.10-1 and 5.10-2; Appendices I-1 (Confidential), M, pp. 22 to 25; Q, Vols. 1 to 3; S; U, Vols. 1 to 3; and V	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Chapters 1, 2 and 4; Sections 2.1 to 2.7; 4.1, and 4.5; 5.1 to 5.11, 5.13, and 5.16; Subsections 4.1.1, 4.2.3.1, 4.2.3.2; 5.2.1.4 to 5.2.2, 5.2.3.1, 5.3.1.1 and 5.3.1.2, 5.5.1.1, 5.6.3.1, 5.7.3, 5.8.1, 5.9.1, 5.10.6,	Yes	

Completeness

Issue: Complete  Incomplete

Technical Area: Executive Summary

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

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Technical Staff: Various

Technical Senior: Eric Knight

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
		5.15.3.1, and 5.16.3.1; pp. 5.2-4 to 5.2-7, 5.2-16 to 5.2-64; 5.4-1 to 5.4-44; 5.5-26 to 5.5-29; 5.6-17 to 5.6-19; 5.10-29, 5.15-8 to 5.15-9; and 5.16-29; Tables 5.2-1 and 5.2-5; Appendices I-1 (Confidential); M, pp. 22-25; Q, Vols. 1 to 3; S; U; Vols. 1 to 3; and V		
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	Chapter 1 and 2; Sections 2.1 to 2.7; 5.1 to 5.17; 5.7.3, 5.8.8, and 5.9.8; Subsection 5.2.8, 5.4.8, 5.5.8, 5.6.9, 5.10.6, 5.11.8, 5.14.8, 5.15.8, 5.16.8, 5.17.8; pp. 5.1-45 to 5.1-51, p. 5.2-75 to 5.2-76, p. 5.4-44; p. 5.5-71, p. 5.6-54; p. 5.10-29, pp. 5.11-23 to 5.11-25, pp. 5.14-31, and 5.14-32, p. 5.15-17, pp. 5.15-1 to 5.15-16, pp. 5.16-1 to 5.16-52, p. 5.16-53, and p. 5.17-18; Appendices J; M, Section 10, pp. 90 to 99; Q, Vols. 1 to 3; S Chapter 4, Section 4.1; U; and V	Yes	

Completeness

Issue: Complete  Incomplete

Technical Area: Executive Summary

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Various

Technical Senior: Eric Knight

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Cal. Code Regs. Tit. 20 § 1704, (a) (4)	Each principal subject area covered in a notice or application shall be set forth in a separate chapter or section, each of which shall identify the person or persons responsible for its preparation.	Chapters 1 to 4, Sections 5-1 to 5-17, Appendix C	Yes	
Appendix B (a) (1) (A)	A general description of the proposed site and related facilities, including the location of the site or transmission routes, the type, size and capacity of the generating or transmission facilities, fuel characteristics, fuel supply routes and facilities, water supply routes and facilities, pollution control systems, and other general characteristics.	Chapter 1 Figures 1-1, 1-2 and 1-3a to 1-3h, Subsections 1.2.1 and 1.2.2; Tables 1-1 and 2, pp. 1-1 to 1-17.	No	See DR BIO-1, DR BIO-2, and DR BIO-21
Appendix B (a) (1) (B)	Identification of the location of the proposed site and related facilities by section, township, range, county and assessor's parcel numbers.	Chapter 1, pp. 1-5 to 1-15; Table 1-1; Figures 1-3a to 1-3h	Yes	
Appendix B (a) (1) (C)	A description of and maps depicting the region, the vicinity, and the site and its immediate surroundings.	Chapter 1, pp. 1-2 to 1-5. Figures 1-1 and 1-2. Section 5.2	Yes	
Appendix B (a) (1) (D)	A full-page color photographic reproduction depicting the visual appearance of the site prior to construction, and a full-page color simulation or artist's rendering of the site and all project components at the site, after construction.	Chapter 1	No	DR PD-16

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

Technical Area: Executive Summary

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Various

Technical Senior: Eric Knight

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (a) (1) (E)	In an appendix to the application, a list of current assessor's parcel numbers and owners' names and addresses for all parcels within 500 feet of the proposed transmission line and other linear facilities, and within 1000 feet of the proposed powerplant and related facilities. Provide the direct mailing addresses for the owners and occupants of properties contiguous to the proposed power plant, related facilities, transmission lines, or other linear facilities as shown on the latest equalized assessment roll. Provide a map showing the parcels in the notice area.	Appendix A, pp. A-1 to A-8, Figures A-1a to Figure A-1h.	No	See DR PD-14 and DR PD-15
Appendix B (a) (2)	Project Schedule: Proposed dates of initiation and completion of construction, initial start-up, and full-scale operation of the proposed facilities.	Chapter 1, p. 1-17, Chapter 2, Section 2.3, Subsection 2.3.6, p. 2-32	Yes	
Appendix B (a) (3) (A)	A list of all owners and operators of the site(s), the power plant facilities, and, if applicable, thermal host, the geothermal leasehold, the geothermal resource conveyance lines, and the geothermal re-injection system, and a description of their legal interest in these facilities.	Chapter 1, Subsection 1.4.1, pp. 1-17 and 1-18	Yes	
Appendix B (a) (3) (B)	A list of all owners and operators of the proposed electric transmission facilities.	Chapter 1, pp. 1-17 and 1-18	Yes	
Appendix B (a) (3) (C)	A description of the legal relationship between the applicant and each of the persons or entities specified in (a)(3)(A) and (B).	Chapter 1, pp. 1-17 and 1-18.	Yes	

**DATA COMPLETENESS WORKSHEET**

Completeness

Issue: Complete  X  Incomplete \_\_\_\_\_

Revision No.  0  Date:  12/11/2023

Technical Area:  Facility Design

Project:  Darden Clean Energy Project

Technical Staff:  Ardalan Sofi

Project Manager:  Ann Crisp & Lisa Worrall

Docket:  23-OPT-02

Technical Senior:  Shahab Khoshmashrab

<b>SITING REGULATIONS</b>	<b>INFORMATION</b>	<b>APPLICATION PAGE NUMBER AND SECTION NUMBER</b>	<b>ADEQUATE YES OR NO</b>	<b>INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS</b>
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Chapter 4, Section 4.1, Subsection 4.1.1	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Chapter 4, Section 4.1, Subsection 4.1.1	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	Chapter 4, Section 4.1	Yes	
Appendix B (h) (1) (A)	A description of the site conditions and investigations or studies conducted to determine the site conditions used as the basis for developing design criteria. The descriptions shall include, but not be limited to, seismic and other geologic hazards, adverse conditions that could affect the project's foundation, adverse meteorological and climatic conditions, and flooding hazards, if applicable.	Chapter 2, Subsection 2.1.2; Chapter 4, Section 4.1, Subsection 4.1.1; Subsection 4.1.3; Section 5.11, Subsection 5.11.1; Section 5.14, Subsection 5.14.1.5; Subsection 5.14.3.2	Yes	
Appendix B (h) (1) (B)	A discussion of any measures proposed to improve adverse site conditions.	Chapter 2, Section 2.1; Chapter 4, Section 4.1, Subsection 4.1.1 to 4.1.3, Figure 4-1; Section 5.11, Subsection 5.11.1; Appendix F, Figure C.401	Yes	
Appendix B (h) (1) (C)	A description of the proposed foundation types, design criteria (including derivation), analytical techniques, assumptions, loading conditions, and	Chapter 4, Section 4.1	Yes	

**DATA COMPLETENESS WORKSHEET**

Completeness

Issue: Complete  X  Incomplete \_\_\_\_\_

Revision No.  0  Date:  12/11/2023

Technical Area:  Facility Design

Project:  Darden Clean Energy Project

Technical Staff:  Ardalan Sofi

Project Manager:  Ann Crisp & Lisa Worrall

Docket:  23-OPT-02

Technical Senior:  Shahab Khoshmashrab

<b>SITING REGULATIONS</b>	<b>INFORMATION</b>	<b>APPLICATION PAGE NUMBER AND SECTION NUMBER</b>	<b>ADEQUATE YES OR NO</b>	<b>INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS</b>
	loading combinations to be used in the design of facility structures and major mechanical and electrical equipment.	Subsection 4.1.1, Subsection 4.1.3; Section 5.13, Subsection 5.13.1.3; Section 5.14, Subsection 5.14.1, Subsection 5.14.3.2, p. 5.14-19		
Appendix B (h) (1) (D)	For each of the following facilities or systems, provide a description including drawings, dimensions, surface-area requirements, typical operating data, and performance and design criteria for protection from impacts due to adverse site conditions:	Chapter 2, Section 2.1; Chapter 4, Section 4.1, Subsection 4.1.4.3, Figure 4-1; Subsection 4.1.4; Appendix F, Figure C.401	Yes	
Appendix B (h) (1) (D) (i)	The power generation system;	Chapter 2, Section 2.1, Subsection 2.1.2; Subsection 2.1.3; Subsection 2.1.12; Subsection 2.1.13; Chapter 4, Subsection 4.1.4; Subsection 4.1.4.1	Yes	
Appendix B (h) (1) (D) (ii)	The heat dissipation system;	Chapter 4, Section 4.1.4, Subsection 4.1.4.2, Section 4.1.4.3	Yes	
Appendix B (h) (1) (D) (iii)	The cooling water supply system, and, where applicable, pre-plant treatment procedures;	Chapter 2, Subsection 2.1.14	Yes	
Appendix B (h) (1) (D) (iv)	The atmospheric emission control system;	Chapter 4, Subsection 4.1.4; Subsection 4.1.4.1; Subsection 4.1.4.2	Yes	
Appendix B (h) (1) (D) (v)	The waste disposal system and on-site disposal sites;	Chapter 2, Subsection 2.1.9; Subsection 2.1.9.1 to	Yes	

**DATA COMPLETENESS WORKSHEET**

Completeness

Issue: Complete  X  Incomplete \_\_\_\_\_

Revision No.  0  Date:  12/11/2023

Technical Area:  Facility Design

Project:  Darden Clean Energy Project

Technical Staff:  Ardalan Sofi

Project Manager:  Ann Crisp & Lisa Worrall

Docket:  23-OPT-02

Technical Senior:  Shahab Khoshmashrab

<b>SITING REGULATIONS</b>	<b>INFORMATION</b>	<b>APPLICATION PAGE NUMBER AND SECTION NUMBER</b>	<b>ADEQUATE YES OR NO</b>	<b>INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS</b>
		Subsection 2.1.9.3; Section 5.11, Subsection 5.11.1.4		
Appendix B (h) (1) (D) (vi)	The noise emission abatement system;	Section 5.3, Subsection 5.3.3.2	Yes	
Appendix B (h) (1) (D) (vii)	The geothermal resource conveyance and re-injection lines (if applicable);	N/A	N/A	N/A
Appendix B (h) (1) (D) (viii)	Switchyards/transformer systems; and	Chapter 2, Section 2.2; Chapter 4, Subsection 4.1.4.4; Section 4.2	Yes	
Appendix B (h) (1) (D) (ix)	Other significant facilities, structures, or system components proposed by the applicant.	Chapter 2, Subsection 2.1.11; Subsection 2.1.13; Chapter 4, Subsection 4.1.4, Subsection 4.1.4.2; Subsection 4.1.4.3	Yes	
Appendix B (i) (1) (A)	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 5.11, Subsection 5.11.5, Table 5.11-4; Section 5.14, Subsection 5.14.5, Table 5.14-4	Yes	
Appendix B (i) (1) (B)	Tables that identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which	Section 5.7, Subsection 5.7.6, Table 5.7-16; Section 5.14, Subsection 5.14.6	Yes	

**DATA COMPLETENESS WORKSHEET**

Completeness

Issue: Complete  X  Incomplete \_\_\_\_\_

Revision No.  0  Date:  12/11/2023

Technical Area:  Facility Design

Project:  Darden Clean Energy Project

Technical Staff:  Ardalan Sofi

Project Manager:  Ann Crisp & Lisa Worrall

Docket:  23-OPT-02

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SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.			
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.	N/A	N/A	N/A
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	N/A	N/A	N/A

Completeness

Issue: Complete  Incomplete

Technical Area: Geological Hazards

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Michael Turner, PG, CEG

Technical Senior: Abdel-Karim Abulaban, PE

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Section 5.16, Subsection 5.16.3.1, p. 5.16-29	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Section 5.16, Subsection 5.16.3.1, p. 5.16-29	No	See DR GEO-1
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	Section 5.16, pp. 5.16-1 to 5.16-52; Subsection 5.16.8 p. 5.16-53	Yes	
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect, and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. Describe the approach, list or projection or a combination, used to develop the cumulative setting for the proposed project. Include any reference materials used such as general plan or other adopted local, regional, or statewide plan.	Section 5.16, Subsection 5.16.1, pp. 5.16-1 to 5.16-14; Subsection 5.16.4, p. 5.16-47; Subsection 5.16.5, pp. 5.16-47 to 5.16-51; Subsection 5.16.8, p. 5.16-53	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete  X

Technical Area:  Geological Hazards

Project Manager:  Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project:  Darden Clean Energy Project

Docket:  23-OPT-02

Revision No.  0  Date:  12/11/2023

Technical Staff:  Michael Turner, PG, CEG

Technical Senior:  Abdel-Karim Abulaban, PE

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (g) (17) (A)	A summary of the geology, seismicity, and geologic resources of the project site and related facilities, including linear facilities.	Section 5.16, Subsection 5.16.1, pp. 5.16-1 to 5.16-20	Yes	
Appendix B (g) (17) (B)	A map at a scale of 1:24,000 and description of all recognized stratigraphic units, geologic structures, and geomorphic features within two (2) miles of the project site and along proposed facilities. Include an analysis of the likelihood of ground rupture, seismic shaking, mass wasting and slope stability, liquefaction, subsidence, tsunami runup, and expansion or collapse of soil structures at the plant site. Describe known geologic hazards along or crossing linear facilities.	Section 5.16, Subsection 5.16.1.2, pp. 5.16-1 to 5.16-14; Figures 5.16-1a through 5.16-1m; Subsection 5.16.1.4, pp. 5.16-17 to 5.16-20	No	See DR GEO-2
Appendix B (g) (17) (C)	A map and description of geologic resources of recreational, commercial, or scientific value which may be affected by the project. Include a discussion of the techniques used to identify and evaluate these resources.	Section 5.16, Subsection 5.16.1.5, p. 5.16-20; Figures 5.16-3a to 5.16-3h	Yes	
Appendix B (i) (1) (A)	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 5.16, Subsection 5.16.5, pp. 5.16-47 to 5.16-51; Subsection 5.16.5, pp. 5.16-48 to 5.16-49, Table 5.16-3	Yes	
Appendix B (i) (1) (B)	Tables that identify each agency with jurisdiction to issue applicable permits, leases,	Section 5.16, Subsection 5.16.6, p. 5.16-52	Yes	

Completeness

Issue: Complete  Incomplete

Technical Area: Geological Hazards

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Michael Turner, PG, CEG

Technical Senior: Abdel-Karim Abulaban, PE

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.			
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.	Section 5.16, Subsection 5.16.6, p. 5.16-52	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.16, Subsection 5.16.7, p. 5.16-52	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

Technical Area: Hazardous Materials Handling

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Paul Miller

Technical Senior: Brett Fooks

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Subsection 5.9.3.2, p. 5.9-16	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Subsection 5.9.1	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	Subsection 5.9.8	No	See DR HAZ-1
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect, and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. Describe the approach, list or projection or a combination, used to develop the cumulative setting for the proposed project. Include any reference materials used such as general plan or other adopted local, regional, or statewide plan.	Subsection 5.9.1; Subsections 5.9.3 to 5.9.5	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

Technical Area: Hazardous Materials Handling

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Paul Miller

Technical Senior: Brett Fooks

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (g) (10) (A)	A list of all materials used or stored on-site which are hazardous or acutely hazardous, as defined in California Code of Regulations, title 22, section 66261.20 et seq., and a discussion of the toxicity of each material.	Section 5.9, pp.5.9-8 to 5.9-13, Tables 5.9-1 to Table 5.9-4	No	See DR HAZ-2 to DR HAZ-6
Appendix B (g) (10) (B)	A map at a scale of 1:24,000 depicting the location of schools, hospitals, daycare facilities, and long-term health care facilities, within the area potentially affected by any release of hazardous materials.	Section 5.9, pp. 5.9-2 to 5.9-6, Figures 5.9-1a to 5.9-1e	Yes	
Appendix B (g) (10) (C)	A discussion of the storage and handling system for each hazardous material used or stored at the site.	Subsection 5.9.1.3, Table 5.9-1, pp. 5.9-13 to 5.9-15	No	See DR HAZ-6
Appendix B (g) (10) (D)	The protocol that will be used in modeling potential consequences of accidental releases that could result in offsite impacts. Identify the model(s) to be used, a description of all input assumptions, including meteorological conditions. The results of the modeling analysis can be submitted after the application is complete.	Subsection 5.9.3.2, pp. 5.9-17 to 5.9-21	Yes	
Appendix B (g) (10) (E)	A discussion of whether a risk management plan (Health and Safety Code section 25531 et seq.) will be required, and if so, the requirements that will likely be incorporated into the plan.	Section 5.9, pp. 5.9-7, 5.9-17 to 5.9-20	Yes	
Appendix B (g) (10) (F)	A discussion of measures proposed to reduce the risk of any release of hazardous materials.	Subsection. 5.9.1, Subsection 5.9.1.3	Yes	
Appendix B (g) (10) (G)	A discussion of the fire and explosion risks associated with the project.	Section 5.9, pp. 5.9-17 to 5.9-20	No	See DR HAZ-7

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

Technical Area: Hazardous Materials Handling

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

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Revision No. 0 Date: 12/11/2023

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Technical Senior: Brett Fooks

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (i) (1) (A)	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 5.9, Table 5.9-5	Yes	
Appendix B (i) (1) (B)	Tables that identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.	Subsection 5.9.6, p. 5.9-33, Table 5.6-6	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.	Section 5.9.6, p. 5.9-33, Tables 5.6-6 and 5.6-7	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.9, Table 5.9-7	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

Technical Area: Land Use

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Andrea Koch

Technical Senior: Steven Kerr

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Section 5.2, Subsections 5.2.3.1 and 5.2.3.2, p. 5.2-51	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Section 5.2, Subsection 5.2.3.1, p. 5.2-51; Table 5.2-1, pp. 5.2-4 to 5.2-7; Subsection 5.2.1.3, pp. 5.2-16 to 5.2-17; Subsections 5.2.1.4 to 5.2.2, pp. 5.2-18 to 5.2-51; Table 5.2-5, pp. 5.2-54 to 5.2-64	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	Section 5.2, Subsection 5.2.8, p. 5.2-75 to 5.2-76	No	See DR LAND-1 and DR LAND-2
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect, and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. Describe the approach, list or projection or a combination, used to develop the cumulative setting for the proposed project. Include any reference materials used such as general plan or other adopted local, regional, or statewide plan.	Section 5.2, Subsection 5.2.1.2, pp. 5.2-2 to 5.2-15; Subsection 5.2.1.5, pp. 5.2-20 to 5.2-32; Subsections 5.2.3 to 5.2.4, pp. 5.2-51 to 5.2-71	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

Technical Area: Land Use

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Andrea Koch

Technical Senior: Steven Kerr

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (g) (3) (A)	A discussion of existing land uses, general plan land use designations, and current zoning districts (including any overlay districts) at the site, land uses and land use patterns within one mile of the proposed site and within one-quarter mile of any project-related linear facilities. Include:	Section 5.2, Subsections 5.2.1.3 to 5.2.1.5, pp. 5.2-16 to 5.2-24	Yes	
Appendix B (g) (3) (A) (i)	An identification of residential, commercial, industrial, recreational, scenic, agricultural, natural resource protection, natural resource extraction, educational, religious, cultural, and historic areas, and any other area of unique land uses;	Section 5.2, Subsection 5.2.1.5, pp. 5.2-20 to 5.2-42	Yes	
Appendix B (g) (3) (A) (ii)	A discussion of any recent or proposed zone changes and/or general plan amendments; noticed by an elected or appointed board, commission, or similar entity at the state or local level;	Section 5.2, Subsection 5.2.1.7, p. 5.2-42	Yes	
Appendix B (g) (3) (A) (iii)	Identification of all discretionary reviews by public agencies initiated or completed within 18 months prior to filing the application for those changes or developments identified in subsection (g)(3)(A)(ii); and	Section 5.2, Subsection 5.2.1.7, p. 5.2-42	Yes	
Appendix B (g) (3) (A) (iv)	Legible maps of the areas identified in subsection (g)(3)(A) potentially affected by the project, on which existing land uses, jurisdictional boundaries, general plan designations, specific plan designations, and zoning have been clearly delineated.	Section 5.2, Figure 5.2-3, p. 5.2-17; Figure 5.2-4, p. 5.2-19; Figures 5.2-5a to 5.2-6h, pp. 5.2-25 to 5.2-41; Figures 5.2-7a to 5.2-7h, pp. 5.2-43 to 5.2-50	Yes	
Appendix B (g) (3) (B)	A discussion of the compatibility of the proposed project with present and expected	Section 5.2, Subsection 5.2.1.3, p. 5.2-16;	No	See DR LAND-5

Completeness

Issue: Complete \_\_\_\_\_ Incomplete  X

Technical Area:  Land Use

Project Manager:  Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project:  Darden Clean Energy Project

Docket:  23-OPT-02

Revision No.  0  Date:  12/11/2023

Technical Staff:  Andrea Koch

Technical Senior:  Steven Kerr

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	land uses, and conformity with any long-range land use plans and policies adopted by any federal, state, regional, or local planning agencies. The discussion shall identify the need, if any, for land use decisions by another public agency or as part of the commission's decision that would be necessary to make the project conform to adopted federal, state, regional, or local coastal plans, land use plans, or zoning ordinances. Examples of land use decisions include general plan amendments, zoning changes, lot line adjustments, parcel mergers, subdivision maps, Agricultural Land Conservation Act contracts cancellation, and Airport Land Use Plan consistency determinations.	Subsection 5.2.1.4, p. 5.2-18; Subsection 5.2.3.2, pp. 5.2-54 to 5.2-70; Subsection 5.2.5, pp. 5.2-71 to 5.2-74; Subsection 5.2.7, p. 5.2-74		
Appendix B (g) (3) (C)	A discussion of the legal status of the parcel(s) on which the project is proposed. If the proposed site consists of more than one legal parcel, describe the method and timetable for merging or otherwise combining those parcels so that the proposed project, excluding linears and temporary laydown or staging area, will be located on a single legal parcel. The merger need not occur prior to a decision on the Application but must be completed prior to the start of construction.	Section 5.2, Table 5.2-1, pp. 5.2-4 to 5.2-7; Figures 5.2-2a to 5.2-2h, pp. 5.2-8 to 5.2-15	Yes	
Appendix B (g) (3) (D)	A map at a scale of 1:24,000 and written description of agricultural land uses found within all areas affected by the proposed project. The description shall include:	Section 5.2, Subsection 5.2.1.5, pp. 5.2-25 to 5.2-33	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

Technical Area: Land Use

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Andrea Koch

Technical Senior: Steven Kerr

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (g) (3) (D) (i)	Land classifications as shown on the California Department of Conservation's Farmland Mapping and Monitoring Program's Important Farmland maps, crop types, irrigation systems, and any special cultivation practices;	Section 5.2, Table 5.2-1, pp. 5.2-4 to 5.2-7; Subsection 5.2.1.5, pp. 5.2-22 to 5.2-42	No	See DR LAND-3
Appendix B (g) (3) (D) (ii)	Whether agricultural land affected by the project was historically classified Farmland as defined by the California Department of Conservation (Prime Farmland, Farmland of Statewide Importance, or Unique Farmland) as specified in Public Resources Code section 21060.1; and	Section 5.2, Subsection 5.2.1.5, pp. 5.2-33 to 5.2-41	No	See DR LAND-3
Appendix B (g) (3) (D) (iii)	Direct, indirect, and cumulative effects on agricultural land uses. If the proposed site or related facilities are subject to an Agricultural Land Conservation contract, provide a written copy and a discussion of the status of the expiration or canceling of such contract.	Section 5.2, Subsection 5.2.1.5, p. 5.2-33; Subsection 5.2.3.2, p. 5.2-54; Subsection 5.2.3.2, pp. 5.2-66 to 5.2-70; Subsection 5.2.4, pp. 5.2-70 to 5.2-71	No	See DR LAND-3
Appendix B (i) (1) (A)	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 5.2, Table 5.2-5, pp. 5.2-54 to 5.2-64; Subsections 5.2.5 to 5.2.5.3, pp. 5.2-71 to 5.2-74	No	See DR LAND-4 and DR LAND-5
Appendix B (i) (1) (B)	Tables that identify each agency with jurisdiction to issue applicable permits, leases,	Section 5.2, Subsection 5.2.6 and 5.2.7, p. 5.2-74	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

Technical Area: Land Use

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Andrea Koch

Technical Senior: Steven Kerr

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.			
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.	Section 5.2, Subsections 5.2.6 and 5.2.7, p. 5.2-74	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.2, Subsection 5.2.7, p. 5.2-74	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

Technical Area: Noise

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Ardalan Sofi

Technical Senior: Shahab Khoshmashrab

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Section 5.3, Subsections 5.3.3.1 and 5.3.3.2	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Section 5.3, Subsections 5.3.1.1 and 5.3.1.2; Subsections 5.3.3.1; and 5.3.3.2	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	Appendix J	Yes	
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect, and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. Describe the approach, list or projection or a combination, used to develop the cumulative setting for the proposed project. Include any reference materials used such as general plan or other adopted local, regional, or statewide plan.	Section 5.3, Subsection 5.3.1.1; Subsection 5.3.1.2; Subsection 5.3.3.1; Subsection 5.3.3.2; Subsection 5.3.4	Yes	
Appendix B (g) (4) (A)	A land use map which identifies residences, hospitals, libraries, schools, places of worship, or other facilities where quiet is an important	Section 5.3, Subsection 5.3.1.2; Figure 5.3-1	Yes	

Completeness

Issue: Complete  Incomplete

Technical Area: Noise

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Ardalan Sofi

Technical Senior: Shahab Khoshmashrab

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	attribute of the environment within the area impacted by the proposed project. The area potentially impacted by the proposed project is that area where, during either construction or operation, there is a potential increase of 5 dB(A) or more, over existing background levels.			
Appendix B (g) (4) (B)	A description of the ambient noise levels at those sites identified under subsection (g)(4)(A) which the applicant believes provide a representative characterization of the ambient noise levels in the project vicinity, and a discussion of the general atmospheric conditions, including temperature, humidity, and the presence of wind and rain at the time of the measurements. The existing noise levels shall be determined by taking noise measurements for a minimum of 25 consecutive hours at a minimum of one site. Other sites may be monitored for a lesser duration at the applicant's discretion, preferably during the same 25-hour period. The results of the noise level measurements shall be reported as hourly averages in Leq (equivalent sound or noise level), Ldn (daynight sound or noise level) or CNEL (Community Noise Equivalent Level) in units of dB(A). The L10, L50, and L90 values (noise levels exceeded 10 percent, 50 percent, and 90 percent of the time, respectively) shall also be reported in units of dB(A).	Section 5.3, Subsection 5.3.1.3; Subsection 5.3.1.3; Figure 5.3-2; Tables 5.3-1, 5.3-3 and 5.3-4	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete  X

Technical Area:  Noise

Project Manager:  Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project:  Darden Clean Energy Project

Docket:  23-OPT-02

Revision No.  0  Date:  12/11/2023

Technical Staff:  Ardalan Sofi

Technical Senior:  Shahab Khoshmashrab

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (g) (4) (C)	A description of the major noise sources of the project, including the range of noise levels and the tonal and frequency characteristics of the noise emitted.	Section 5.3, Subsection 5.3.3.1	No	See DR NOISE-1
Appendix B (g) (4) (D)	An estimate of the project noise levels, during both construction and operation, at residences, hospitals, libraries, schools, places of worship or other facilities where quiet is an important attribute of the environment, within the area impacted by the proposed project.	Section 5.3, Subsection 5.3.3.2	No	See DR NOISE-1
Appendix B (g) (4) (E)	An estimate of the project noise levels within the project site boundary during both construction and operation and the impact to the workers at the site due to the estimated noise levels.	Section 5.3, Subsection 5.3.3.2	Yes	
Appendix B (g) (4) (F)	The audible noise from existing switchyards and overhead transmission lines that would be affected by the project and estimates of the future audible noise levels that would result from existing and proposed switchyards and transmission lines. Noise levels shall be calculated at the property boundary for switchyards and at the edge of the rights-of-way for transmission lines.	Section 5.3, Subsection 5.3.3.2	Yes	
Appendix B (i) (1) (A)	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the	Section 5.3, Subsection 5.3.5; Tables 5.3-21, 5.3-22 and 5.3-23	Yes	

Completeness

Issue: Complete  Incomplete

Technical Area: Noise

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Ardalan Sofi

Technical Senior: Shahab Khoshmashrab

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and			
Appendix B (i) (1) (B)	Tables that identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.	Section 5.3, Subsection 5.3.5; Table 5.3-21	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.	Section 5.3, Subsection 5.3.6	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.3, Subsection 5.3.7	Yes	

Completeness Issue:

Complete  Incomplete

**DATA COMPLETENESS WORKSHEET**

Revision No. 0 Date: 12/11/2023

Technical Area: Paleontological Resources

Project: Darden Clean Energy Project

Technical Staff: Michael Turner, PG, CEG

Project Manager: Ann Crisp & Lisa Worrall

Docket: 23-0PT-02

Technical Senior: Abdel-Karim Abulaban, PE

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Section 5.13, Subsection 5.15.3.1, pp. 5.15-8 to 5.15-9	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Section 5.13, Subsection 5.15.3.1, pp. 5.15-8 to 5.15-9	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	Section 5.15, Subsection 5.15.8, p. 5.15-17; Section 5.15, pp. 5.15-1 to 5.15-16	Yes	
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect, and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. Describe the approach, list or projection or a combination, used to develop the cumulative setting for the proposed project. Include any reference materials used such as general plan or other adopted local, regional, or statewide plan.	Section 5.15, Subsection 5.15.1.1, pp. 5.15-1 to 5.15-2; Subsection 5.15.3.2, pp. 5.15-9 to 5.15-14; Subsection 5.15.4, p. 5.15-14	Yes	

Completeness Issue:

Complete  Incomplete

**DATA COMPLETENESS WORKSHEET**

Revision No. 0 Date: 12/11/2023

Technical Area: Paleontological Resources

Project: Darden Clean Energy Project

Technical Staff: CEG

Project Manager: Ann Crisp & Lisa Worrall

Docket: 23-0PT-02

Technical Senior: Abulaban, PE

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (g) (16) (A)	Identification of the physiographic province and a brief summary of the geologic setting, formations, and stratigraphy of the project area. The size of the paleontological study area may vary depending on the depositional history of the region.	Section 5.15, Subsection 5.15.1.1, pp. 5.15-1 to 5.15-5; Figure 5.15-1; Subsection 5.15.1.3, pp. 5.15-5 through 5.15-6	No	See DR GEO-2
Appendix B (g) (16) (B)	A discussion of the sensitivity of the project area described in subsection (g)(16)(A) and the presence and significance of any known paleontological localities or other paleontological resources within or adjacent to the project. Include a discussion of sensitivity for each geologic unit identified on the most recent geologic map at a scale of 1:24,000. Provide rationale as to why the sensitivity was assigned.	Section 5.15, Subsection 5.15.1.3, pp. 5.15-5 to 5.15-6; Subsection 5.15.1.4, pp. 5.15-6 to 5.15-8; Appendix T	Yes	
Appendix B (g) (16) (C)	A summary of all local museums, literature searches and field surveys used to provide information about paleontological resources in the project area described in (g)(16)(A). Identify the dates of the surveys, methods used in completing the surveys, and the names and qualifications of the individuals conducting the surveys.	Subsection 5.15.3.1, pp. 5.15-8 to 5.15-9	Yes	
Appendix B (g) (16) (D)	Information on the specific location of known palaeontologic resources, survey reports, locality records, and maps at a scale of 1:24,000, showing occurrences of fossil finds, if known, within a 1-mile radius of the project and	Subsection 5.15.3.1, pp. 5.15-8 to 5.15-9; Appendix T	Yes	

Completeness Issue:

Complete  Incomplete

**DATA COMPLETENESS WORKSHEET**

Revision No. 0 Date: 12/11/2023

Technical Area: Paleontological Resources

Project: Darden Clean Energy Project

Technical Staff: CEG

Project Manager: Ann Crisp & Lisa Worrall

Docket: 23-0PT-02

Technical Senior: Abulaban, PE

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	related facilities shall be included in a separate appendix to the Application and submitted to the Commission under a request for confidentiality, pursuant to California Code of Regulations, title 20, section 2501 et seq.			
Appendix B (g) (16) (E)	A discussion of any educational programs proposed to enhance awareness of potential impacts to paleontological resources by employees, measures proposed for mitigation of impacts to known palaeontologic resources, and a set of contingency measures for mitigation of potential impacts to unknown paleontological resources.	Section 5.15, Subsection 5.15.3.2, pp. 5.15-12 to 5.14-14	Yes	
Appendix B (i) (1) (A)	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 5.15, Subsection 5.15.5, pp. 5.15-14 to 5.16-16; Table 5.15-1	Yes	
Appendix B (i) (1) (B)	Tables that identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies that would have permit approval or	Section 5.15, Subsection 5.15.6, p. 5.15-16	Yes	

Completeness Issue:

Complete  Incomplete

**DATA COMPLETENESS WORKSHEET**

Revision No. 0 Date: 12/11/2023

Technical Area: Paleontological Resources

Project: Darden Clean Energy Project

Technical Staff: Michael Turner, PG,

Project Manager: Ann Crisp & Lisa Worrall

Docket: 23-0PT-02

Technical Senior: Abdel-Karim Abulaban, PE

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.			
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.	Section 5.15, Subsection 5.15.6, p. 5.15-16	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.15, Subsection 5.15.7, p. 5.15-16	Yes	

Completeness

Issue: Complete  Incomplete

Technical Area: **Project Description**

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Various

Technical Senior: Eric Knight

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (b) (1)	In a section entitled, "Generation Facility Description, Design, and Operation" provide:	--	--	--
Appendix B (b) (1) (A)	Maps at a scale of 1:24,000 (1" = 2000'), (or appropriate map scale agreed to by staff) along with an identification of the dedicated leaseholds by section, township, range, county, and county assessor's parcel number, showing the proposed final locations and layout of the power plant and all related facilities;	Appendix A, Figures A-1a to A-8h; Chapter 1, pp. 1-5 to 1-15. Table 1-1, Figures 1-3a to 1-3 ah	Yes	
Appendix B (b) (1) (B)	Scale plan and elevation drawings depicting the relative size and location of the power plant and all related facilities to establish the accuracy of the photo simulations required in sections (a)(1)(D) and (g)(6)(F);	Appendix F	Yes	
Appendix B (b) (1) (C)	A detailed description of the design, methods of construction (include depth of excavations and other ground disturbances) and operation of the facilities, specifically including the power generation, cooling, water supply and treatment, waste handling and control, pollution control, fuel handling, and safety, emergency and auxiliary systems, and fuel types and fuel use scenarios; and	Chapter 2, Section 2.1.5.4; Section 4, Subsection 4.1.4.3, Figure 4; Appendix F	No	See DR PD-1 to DR PD-4, DR PD-7 to DR PD-12
Appendix B (b) (1) (D)	A description of how the site and related facilities were selected, and the consideration given to engineering constraints, site geology, environmental impacts, water, waste and fuel constraints, electric transmission constraints, and other factors considered by the applicant.	Section 2, p. 2-1, Subsection 2.1.17; Subsection 2.2.7	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

Technical Area: Project Description

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Various

Technical Senior: Eric Knight

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (b) (2)	In a section titled, "Transmission Lines Description, Design, and Operation" provide:	--	--	--
Appendix B (b) (2) (A)	Maps at a scale of 1:24,000 (or appropriate map scale agreed to by staff) of each proposed transmission line route, showing the settled areas, parks, recreational areas, scenic areas, and existing transmission lines within one mile of the proposed route(s);	Section 2, Subsection 2.2, p. 2-17, Figures 2-3a to 2-3h	Yes	
Appendix B (b) (2) (B)	A full-page color photographic reproduction depicting a representative above ground section of the transmission line route prior to construction and a full-page color photographic simulation of that section of the transmission line route after construction.	Section 5.5, pp. 5.5-36 to 5.5-41, Figures 5.5-4a to Figure 5.5-6b, pp. 5.5-46 and 5.5-46, Figures 5.5-9 and Figure 5.5-9b	Yes	
Appendix B (b) (2) (C)	A detailed description of the design, construction, and operation of any electric transmission facilities, such as power lines, substations, switchyards, or other transmission equipment, which will be constructed or modified to transmit electrical power from the proposed power plant to the load centers to be served by the facility. Such description shall include the width of rights-of-way and the physical and electrical characteristics of electrical transmission facilities such as towers, conductors, and insulators.	Chapter 1, Subsections 1.2.1 and 1.2.2; Chapter 2 Sections 2.1 to 2.7; Chapter 4, Section 4.2, Subsection 4.2.2; Appendix F, Electrical plans E 101 to E 301	Yes	
Appendix B (b) (2) (D)	A description of how the route and additional transmission facilities were selected, and the consideration given to engineering constraints, environmental impacts, resource conveyance	Chapter 2, Sections 2.1 to 2.7; Appendix F, Electrical plans E 101 to E 301	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

**DATA COMPLETENESS WORKSHEET**

Revision No. 0 Date: 12/11/2023

Technical Area: Project Description

Project: Darden Clean Energy Project

Technical Staff: Various

Project Manager: Ann Crisp & Lisa Worrall

Docket: 23-OPT-02

Technical Senior: Eric Knight

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	constraints, and electric transmission constraints; and			
Appendix B (e) (1)	A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	Sections 3.1 and 3.2 pp. 3-1 to 3-2; Appendix H, pp. 1 to 8	No	See DR BIO-40

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

Technical Area: Public Health

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: J. Record/Y. Ding

Technical Senior: Joseph Hughes

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Section 5.8, Subsection 5.8.1	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Section 5.8, Subsection 5.8.1	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	Section 5.8, Subsection 5.8.8	No	See DR PH-1
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect, and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. Describe the approach, list or projection or a combination, used to develop the cumulative setting for the proposed project. Include any reference materials used such as general plan or other adopted local, regional, or statewide plan.	Section 5.8, Subsection 5.8.1	No	See DR PH-2
Appendix B (g) (9) (A)	An assessment of the potential risk to human health from the project's hazardous air	Section 5.8, Subsection 5.8.1, Table 5.8-1	No	See DR PH-3 to DR PH-5

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

Technical Area: Public Health

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: J. Record/Y. Ding

Technical Senior: Joseph Hughes

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	emissions using the Air Resources Board Hotspots Analysis and Reporting Program (HARP) (HSC sections 44360-44366) or its successor and Approved Risk Assessment Health Values. These values should include the cancer potency values and noncancer reference exposure levels approved by the Office of Environmental Health Hazard Assessment (OEHHA Guidelines, Cal-EPA 2005).			
Appendix B (g) (9) (B)	A listing of the input data and output results, in both electronic and print formats, used to prepare the HARP health risk assessment.	Section 5.8, Subsection 5.8.1, Table 5.8-1; Appendix N, Modeling Data files	Yes	
Appendix B (g) (9) (C)	Identification of available health studies through the local public health department concerning the potentially affected population(s) within a six-mile radius of the proposed power plant site related to respiratory illnesses, cancers or related diseases.	Section 5.8, Subsection 5.8.1.2	Yes	
Appendix B (g) (9) (D)	A map showing sensitive receptors within the area exposed to the substances identified in subsection (g)(9)(A).	Section 5.8, Subsection 5.8.1; Appendix N	Yes	
Appendix B (g) (9) (E)	For this section, the following definitions apply:	--	--	--
Appendix B (g) (9) (E) (i)	A sensitive receptor refers to infants and children, the elderly, and the chronically ill, and any other member of the general population who is more susceptible to the effects of the exposure than the population at large;	Section 5.8, Subsection 5.8.1.1	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete  X

Technical Area:  Public Health

Project Manager:  Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project:  Darden Clean Energy Project

Docket:  23-OPT-02

Revision No.  0  Date:  12/11/2023

Technical Staff:  J. Record/Y. Ding

Technical Senior:  Joseph Hughes

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (g) (9) (E) (ii)	An acute exposure is one that occurs over a time period of less than or equal to one (1) hour; and	Section 5.8, Subsection 5.8.1.1	No	See DR PH-3
Appendix B (g) (9) (E) (iii)	A chronic exposure is one that is greater than twelve (12) percent of a lifetime of seventy (70) years.	Section 5.8, Subsection 5.8.1.1	Yes	
Appendix B (i) (1) (A)	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 5.8, Subsection 5.8.5, Table 5.8-2	Yes	
Appendix B (i) (1) (B)	Tables that identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.	Section 5.8, Subsection 5.8.6, Table 5.8-4	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.	Section 5.8, Subsection 5.8.8, Table 5.8-4	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

**DATA COMPLETENESS WORKSHEET**

Revision No. 0 Date: 12/11/2023

Technical Area: Public Health

Project: Darden Clean Energy Project

Technical Staff: J. Record/Y. Ding

Project Manager: Ann Crisp & Lisa Worrall

Docket: 23-OPT-02

Technical Senior: Joseph Hughes

<b>SITING REGULATIONS</b>	<b>INFORMATION</b>	<b>APPLICATION PAGE NUMBER AND SECTION NUMBER</b>	<b>ADEQUATE YES OR NO</b>	<b>INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS</b>
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Appendix N, Table 5	Yes	

Completeness

Issue: Complete X Incomplete \_\_\_\_\_

Technical Area: Reliability

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Kenneth Salyphone

Technical Senior: Shahab Khoshmashrab

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	N/A	N/A	N/A
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	N/A	N/A	N/A
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	N/A	N/A	N/A
Appendix B (h) (3) (A)	A discussion of the sources and availability of the fuel or fuels to be used over the estimated service life of the facilities.	Subsection 4.3.1, p. 4-7	Yes	
Appendix B (h) (3) (B)	A discussion of the anticipated service life and degree of reliability expected to be achieved by the proposed facilities on consideration of:	Subsection 4.3.2, p. 4-8	Yes	
Appendix B (h) (3) (B) (i)	Expected overall availability factor, and annual and lifetime capacity factors;	Subsection 4.3.2.1 to 4.3.2.3, p. 4-8	Yes	
Appendix B (h) (3) (B) (ii)	The demonstrated or anticipated feasibility of the technologies, systems, components, and measures proposed to be employed in the facilities, including the power generation system, the heat dissipation system, the water supply system, the reinjection system, the atmospheric emission control system, resource conveyance lines, and the waste disposal system;	Chapter 2, Sections 2.1 to 2.3, p. 2-5 to 2-29	Yes	

Completeness

Issue: Complete X Incomplete \_\_\_\_\_

Technical Area: Reliability

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Kenneth Salyphone

Technical Senior: Shahab Khoshmashrab

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (h) (3) (B) (iii)	Geologic and flood hazards, meteorologic conditions and climatic extremes, and cooling water availability;	Chapter 2, Subsubsection 2.1.14; Section 5-16, p. 5.16-1	Yes	
Appendix B (h) (3) (B) (iv)	Special design features adopted by the applicant or resource supplier to ensure power plant reliability including equipment redundancy; and	Chapter 2, Subsection 2.1.12, p. 2-16; Subsection 4.3.2, p. 4-9	Yes	
Appendix B (h) (3) (B) (v)	For technologies not previously installed and operated in California, the expected power plant maturation period.	N/A	N/A	N/A
Appendix B (i) (1) (A)	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	N/A	N/A	N/A
Appendix B (i) (1) (B)	Tables that identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.	N/A	N/A	N/A
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an	N/A	N/A	N/A

Completeness

Issue: Complete  Incomplete

Technical Area: **Reliability**

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Kenneth Salyphone

Technical Senior: Shahab Khoshmashrab

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.			
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	N/A	N/A	N/A

Completeness

Issue: Complete  Incomplete

Technical Area: Socioeconomics

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Ellen LeFevre

Technical Senior: Steven Kerr

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Section 5.6, Subsection 5.6.3.1, pp. 5.6-17 to 5.6-19; Appendix M, pp. 22 to 25	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Section 5.6, Subsection 5.6.3.1, pp. 5.6-17 to 5.6-19; Appendix M, pp. 22-25	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	Section 5.6, Subsection 5.6.9, p. 5.6-54; Appendix M, Section 10, pp. 90 to 99	Yes	
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect, and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. Describe the approach, list or projection or a combination, used to develop the cumulative setting for the proposed project. Include any reference materials used such as general plan or other adopted local, regional, or statewide plan.	Chapter 5, pp. 5-2 to 5-5; Section 5.6, Subsection 5.6.4, p. 5.6-48, pp. 5.6-44 to 5.6-45	Yes	
Appendix B (g) (7) (A)	A description of the socioeconomic circumstances of the vicinity and region	Section 5.6, Subsection 5.6.1 pp.5.6-1 to 5.6-7	Yes	

Completeness

Issue: Complete  Incomplete

Technical Area: Socioeconomics

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Ellen LeFevre

Technical Senior: Steven Kerr

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	affected by construction and operation of the project. Include:			
Appendix B (g) (7) (A) (i)	The economic characteristics, including the economic base, fiscal resources, and a list of the applicable local agencies with taxing powers and their most recent and projected revenues;	Section 5.6, Subsection 5.6.1.3, pp. 5.6-7 to 5.6-10, Subsection 5.6.1.4, pp. 5.6-11 to 5.6-12	Yes	
Appendix B (g) (7) (A) (ii)	The social characteristics, including population and demographic and community trends;	Section 5.6, Subsection 5.6.1.1 pp. 5.6-1 to 5.6-4	Yes	
Appendix B (g) (7) (A) (iii)	Existing and projected unemployment rates;	Section 5.6, Subsection 5.6.1.3, p.g 5.6-10 to 5.6-11	Yes	
Appendix B (g) (7) (A) (iv)	Availability of skilled workers by occupation required for construction and operation of the project;	Appendix M, p. 30, Table 30	No	See DR SOCIO-1
Appendix B (g) (7) (A) (v)	Availability of temporary and permanent housing and current vacancy rate; and	Section 5.6, Subsection 5.6.1.2, pp. 5.6-5 to 5.6-7, Table 5.6-4	Yes	
Appendix B (g) (7) (A) (vi)	Capacities, service standards, existing and expected use levels, and planned expansion of utilities (gas, water and waste) and public services, including fire protection, law enforcement, emergency response, medical facilities, other assessment districts, school districts, parks and recreation facilities, libraries, and other public facilities. For projects outside metropolitan areas with a population of 500,000 or more, information for each school district shall include current enrollment and yearly expected enrollment by grade level groupings, excluding project-related changes for the duration of the project schedule.	Section 5.6, Subsection 5.6.1.5, pp. 5.6-13 to 5.6-16; Subsection 5.6.1.6 pp. 5.6-16 to 5.6-17	Yes	

Completeness

Issue: Complete  Incomplete

Technical Area: Socioeconomics

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Ellen LeFevre

Technical Senior: Steven Kerr

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (g) (7) (B)	A discussion of the socioeconomic impacts caused by the construction and operation of the project (note year of estimate, model, if used, and appropriate sources), including:	Section 5.6, Subsection 5.6.3.1, p. 5.6-18; Appendix M	No	See DR SOCIO-2
Appendix B (g) (7) (B) (i)	An estimate of the number of workers to be employed each month by occupation during construction, and for operations, an estimate of the number of permanent operations workers during a year;	Section 5.6, p5.6-22; Appendix M, pp. 58 to 59	No	See DR SOCIO-3
Appendix B (g) (7) (B) (ii)	An estimate of the percentage of non-local workers who will relocate to the project area to work during the project construction and operation;	Appendix M, Tables 32 and 33, pp. 64 to 65,	Yes	
Appendix B (g) (7) (B) (iii)	An estimate of the potential population increase caused directly and indirectly by the project;	Section 5.6, pp. 5.6-20 to 5.6-22	Yes	
Appendix B (g) (7) (B) (iv)	The potential impact of population increase on housing during the construction and operations phases;	Section 5.6, pp 5.6-23 to 5.6-25	Yes	
Appendix B (g) (7) (B) (v)	The potential impacts, including additional costs and ability to meet local service standards, on utilities (gas, water, and waste) and public services, including fire, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. Include response times to hospitals and for police protection, fire projection, emergency services, parks and recreation facilities, libraries, and other public facilities. For projects outside metropolitan areas with a population of 500,000 or more, information on schools shall include project related enrollment changes by grade	Section 5.6, pp. 5.6-41 to 5.6-46	No	See DR SOCIO-4

Completeness

Issue: Complete  Incomplete

Technical Area: Socioeconomics

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Ellen LeFevre

Technical Senior: Steven Kerr

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	level groupings and associated facility and staffing impacts by school district during the construction and operating -phases;			
Appendix B (g) (7) (B) (vi)	An estimate of applicable school impact fees;	Section 5.6, Subsection 5.6.1.4, p. 5.6-13	Yes	
Appendix B (g) (7) (B) (vii)	An estimate of the total construction payroll and separate estimates of the total operation payroll for permanent and short-term (contract) operations employees;	Appendix B of Appendix M, Tables 37 and 38, pp. 3 to 4	No	See DR SOCIO-5
Appendix B (g) (7) (B) (viii)	An estimate of the expenditures for locally purchased materials for the construction and operation phases of the project;	Appendix B of Appendix M, pp. 4 to 5, Table 39	No	See DR SOCIO-6
Appendix B (g) (7) (B) (ix)	An estimate of the capital cost (plant and equipment) of the project;	Appendix B of Appendix M, Table 39, pp. 4 to 5	Yes	
Appendix B (g) (7) (B) (x)	An estimate of sales taxes generated during construction and separately during an operational year of the project;	Section 5.6, Table 5.6-23, pp. 5.6-40 to 5.6-41; Appendix M, Tables 55 to 57, pp. 12 to 13	Yes	
Appendix B (g) (7) (B) (xi)	An estimate of property taxes generated during an operational year of the project;	Section 5.6, Table 5.6-23, p. 5.6-40	No	See DR SOCIO-7
Appendix B (g) (7) (B) (xii)	The expected direct, indirect, and induced income and employment effects due to construction and operation of the project; and	Section 5.6, Subsection 5.6.3.2, Tables 5.6-18 and Table 5.6-19, pp. 5.6-25 to 5.6-26, Table 5.6-21 and Table 5.6-22, pp. 5.6-35 to 5.6.37	Yes	
Appendix B (g) (7) (B) (xiii)	A discussion of impacts to environmental justice populations by technical areas and whether any impacts would disproportionately affect the environmental justice populations.	Section 5.6, Subsection 5.6.5, pp. 5.6-48 to 5.6-50	Yes	

Completeness

Issue: Complete  Incomplete

Technical Area: Socioeconomics

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Ellen LeFevre

Technical Senior: Steven Kerr

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (i) (1) (A)	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 5.6, Subsection 5.6.6, Table 5.6-24, p. 5.6-51	Yes	
Appendix B (i) (1) (B)	Tables that identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.	Section 5.6, Subsection 5.6.8, p. 5.6-53	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.	Section 5.6, Subsection 5.6.7, Table 5.6-25, p. 5.6-53	No	See DR SOCIO-8
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.6, Subsection 5.6.8, p.5.6-53	Yes	

**DATA COMPLETENESS WORKSHEET**

Completeness Issue: Complete  Incomplete  Revision No. 0 Date: 12/11/2023  
 Technical Area: Soils Project: Darden Clean Energy Project Technical Staff: James Ackerman  
 Project Manager: Ann Crisp & Lisa Worrall Docket: 23-OPT-02 Technical Senior: Abulaban

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Section 5.14, Subsection 5.14.3, pp. 5.14-17 to 5.14-25	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	N/A	N/A	N/A
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	Section 5.14, Subsection 5.14.8, pp. 5.14-31 and 5.14-32	Yes	
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect, and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. Describe the approach, list or projection or a combination, used to develop the cumulative setting for the proposed project. Include any reference materials used such as general plan or	Section 5.14, Subsection 5.14.1, pp. 5.14-1 to 5.14-17; Section 5.14.3, pp. 5.14-17 to 5.14-25	Yes	

**DATA COMPLETENESS WORKSHEET**

Completeness Issue: Complete \_\_\_\_\_ Incomplete X      Revision No. 0 Date: 12/11/2023  
 Technical Area: Soils Project: Darden Clean Energy Project Technical Staff: James Ackerman  
 Project Manager: Ann Crisp & Lisa Worrall Docket: 23-OPT-02 Technical Senior: Abulaban

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	other adopted local, regional, or statewide plan.			
Appendix B (g) (15) (A)	A map at a scale of 1:24,000 and written description of soil types and all agricultural land uses that will be affected by the proposed project. The description shall include:	Section 5.14, Subsection 5.14.1.2, pp. 5.14-1 to 5.14-14, Figures 5.14-1a to 5.14-1h, Table 5.14-1	No	See DR SOIL-1
Appendix B (g) (15) (A) (i)	The depth, texture, permeability, drainage, erosion hazard rating, and land capability class of the soil;	Section 5.14, Subsection 5.14.1.3, pp. 5.14-10 to 5.14-14, Table 5.14-1	Yes	
Appendix B (g) (15) (A) (ii)	An identification of other physical and chemical characteristics of the soil necessary to allow an evaluation of soil erodibility, permeability, re-vegetation potential, and cycling of pollutants in the soil-vegetation system;	Section 5.14, Subsection 5.14.1.3 pp. 5.14-10 to 5.14-14, Table 5.14-1; Subsection 5.14.1.4, pp. 5.14-14 and 5.14-15	Yes	
Appendix B (g) (15) (A) (iii)	The location of any proposed fill disposal or fill procurement (borrow) sites; and	N/A	N/A	N/A
Appendix B (g) (15) (A) (iv)	The location of any contaminated soils that could be disturbed by project construction.	Section 5.14, Subsection 5.14.1.3, pp. 5.14-16 and 5.14-17	Yes	
Appendix B (g) (15) (B)	An assessment of the effects of the proposed project on soil resources and agricultural land uses. This discussion shall include:	Section 5.2, Subsection 5.2.3.2, pp. 5.2-66 to 5.2-70; Section 5.14, Subsection 5.14.3, pp. 5.14-18 to 5.14-21	Yes	
Appendix B (g) (15) (B) (i)	The quantification of accelerated soil loss due to wind and water erosion; and	Section 5.14, Subsection 5.14.1.4, pp.5.14-14 and 5.14-15	Yes	

**DATA COMPLETENESS WORKSHEET**

Completeness Issue: Complete  Incomplete  Revision No. 0 Date: 12/11/2023  
 Technical Area: Soils Project: Darden Clean Energy Project Technical Staff: James Ackerman  
 Project Manager: Ann Crisp & Lisa Worrall Docket: 23-OPT-02 Technical Senior: Abulaban

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (g) (15) (B) (ii)	The effect of power plant emissions on surrounding soil-vegetation systems.	Section 5.12	No	See DR BIO-20
Appendix B (i) (1) (A)	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 5.14, Subsection 5.14.5, pp. 5.14-25 and 5.14-26, Table 5.14-1	Yes	
Appendix B (i) (1) (B)	Tables that identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.	Section 5.14, Subsection 5.14.5, p. 5.14-30, Table 5.14-5	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.	Section 5.14, Subsection 5.14.5, p. 5.14-30, Table 5.14-5	Yes	

**DATA COMPLETENESS WORKSHEET**

Completeness Issue: Complete  Incomplete  Revision No. 0 Date: 12/11/2023  
 Technical Area: Soils Project: Darden Clean Energy Project Technical Staff: James Ackerman  
Abdel-Karim  
 Project Manager: Ann Crisp & Lisa Worrall Docket: 23-OPT-02 Technical Senior: Abulaban

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.14, Subsection 5.14.7, p. 5.14-30, Table 5.14-6	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

Technical Area: Traffic and Transportation

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Ashley Gutierrez

Technical Senior: Steven Kerr

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Section 5.4, Subsection 5.4.3, pp. 5.4-16 to 5.4-37	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Section 5.4, pp. 5.4-1 to 5.4-44	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	Section 5.4, Subsection 5.4.8, p. 5.4-44	Yes	
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect, and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. Describe the approach, list or projection or a combination, used to develop the cumulative setting for the proposed project. Include any reference materials used such as general plan or other adopted local, regional, or statewide plan.	Section 5.4, Subsection 5.4.3, pp. 5.4-16 to 5.4-37	Yes	
Appendix B (g) (5) (A)	A regional transportation setting, on topographic maps (scale of 1:250,000), identifying the project location and major	Section 5.4, Figure 5.4-1, p. 5.4-2	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete  X

Technical Area:  Traffic and Transportation

Project Manager:  Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project:  Darden Clean Energy Project

Docket:  23-OPT-02

Revision No.  0  Date:  12/11/2023

Technical Staff:  Ashley Gutierrez

Technical Senior:  Steven Kerr

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	transportation facilities. Include a reference to the transportation element of any applicable local or regional plan.			
Appendix B (g) (5) (B)	If the proposed project including any linear facility is to be located within four miles of an airport, a planned or proposed airport runway, or an airport runway under construction, discuss the project's compliance with the applicable sections of the current Federal Aviation Regulation Part 77 – Safe, Efficient Use, and Preservation of the Navigable Airspace, specifically any potential to obstruct or impede air navigation generated by the project during construction or operation; such as, a thermal plume, a visible water vapor plume, glare, electrical interference, or surface structure height. The discussion should include:	Section 5.4, Subsection 5.4.1.1, p. 5.4-13	No	See DR TRANS-1 to DR TRANS-3 and DR TRANS-5
Appendix B (g) (5) (B) (i)	A map at a scale of 1:24,000 that displays the airport or airstrip runway configuration, the airport influence area including all safety zones, and the proposed power plant site and related facilities.	Section 5.4	No	See DR TRANS-1
Appendix B (g) (5) (B) (ii)	A thermal plume analysis that describes the plume's velocity;	Section 5.4	No	See DR TRANS-2 and DR TRANS-3
Appendix B (g) (5) (B) (iii)	A discussion of the project's conformance with applicable Airport Land Use Compatibility Plan policies; and	N/A	N/A	
Appendix B (g) (5) (B) (iv)	Copies of FAA Form 7460-1, Notice of Proposed Construction or Alteration, that were submitted or approved for any project component requiring notice.	N/A	N/A	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

Technical Area: Traffic and Transportation

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Ashley Gutierrez

Technical Senior: Steven Kerr

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (g) (5) (C)	An evaluation of the project's potential impacts related to vehicle miles traveled (VMT) that may include:	Section 5.4, Subsection 5.4.3, pp. 5.4-28 to 5.4-30, Appendix K	No	See DR TRANS-6
Appendix B (g) (5) (C) (i)	The local jurisdiction's thresholds of significance;	Section 5.4, Subsection 5.4.3, pp. 5.4-28 to 5.4-30	No	See DR TRANS-6
Appendix B (g) (5) (C) (ii)	Methodologies (such as local VMT Evaluation Tool);	Section 5.4, Subsection 5.4.3, pp. 5.4-28 to 5.4-30	No	See DR TRANS-6
Appendix B (g) (5) (C) (iii)	VMT heat maps; and	Section 5.4	No	See DR TRANS-6
Appendix B (g) (5) (C) (iv)	Transportation demand management plans and any documents supporting the project applicant's CEQA determination.	Section 5.4, Subsection 5.4.3, p. 5.4-30	Yes	
Appendix B (g) (5) (D)	An identification, on topographic maps at a scale of 1:24,000, and a description of existing and planned roads, rail lines, (including light rail), bike trails, airports, bus routes serving the project vicinity, pipelines, and canals in the project area affected by or serving the proposed facility. For each road identified, include the following, where applicable:	Section 5.4, Figures 5.4-2a to 5.4-2h, pp. 5.4-3 to 5.4-10; Subsection 5.4.1.1 to 5.4.1.3, pp. 5.4-11 to 5.4-15; Appendix K	Yes	
Appendix B (g) (5) (D) (i)	Road classification and design capacity;	Section 5.4, Subsection 5.4.1.1, pp. 5.4-11 to 5.4-12; Appendix K	Yes	
Appendix B (g) (5) (D) (ii)	Current daily average and peak traffic counts;	Section 5.4, Subsection 5.4.1.1, p. 5.4-14; Appendix K	Yes	
Appendix B (g) (5) (D) (iii)	Current and projected levels of service before project development, during construction, and during project operation;	Section 5.4, Subsection 5.4.3.2, pp. 5.4-16 to 5.4-25; Appendix K	Yes	
Appendix B (g) (5) (D) (iv)	Weight and load limitations;	Section 5.4, Subsection 5.4.1.2, p. 5.4-15	Yes	

Completeness

Issue: Complete  Incomplete

Technical Area: **Traffic and Transportation**

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Ashley Gutierrez

Technical Senior: Steven Kerr

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (g) (5) (D) (v)	Estimated percentage of current traffic flows for passenger vehicles and trucks; and	Section 5.4, Subsection 5.4.1.2, p. 5.4-14	Yes	
Appendix B (g) (5) (D) (vi)	An identification of any road features affecting public safety.	Section 5.4, Subsection 5.4.1.2, p. 5.4-14	Yes	
Appendix B (g) (5) (E)	An assessment of the construction and operation impacts of the proposed project on the transportation facilities identified in (g)(5)(D). Also include anticipated project specific traffic, estimated changes to daily average and peak traffic counts, levels of service, and traffic/truck mix, and the impact of construction of any facilities identified in (g)(5)(D). Include:	Section 5.4, Subsection 5.4.3.2, pp. 5.4-16 to 5.4-28; Appendix K; Appendix N	No	See DR TRANS-4 and DR TRANS-7
Appendix B (g) (5) (E) (i)	Estimated one-way trip lengths for workers, deliveries, and truck haul trips generated by the construction of the project.	Appendix N	Yes	
Appendix B (g) (5) (E) (ii)	Description of public roadways and intersections temporarily or permanently altered by construction and operation including the duration of activities.	Section 5.4, Subsection 5.4.3.2, pp. 5.4-16 to 5.4-28; Appendix K	No	See DR TRANS-5 and DR TRANS-8
Appendix B (g) (5) (F)	A discussion of project-related hazardous materials to be transported to or from the project during construction and operation of the project, including the types, estimated quantities, estimated number of trips, anticipated routes, means of transportation, and any transportation hazards associated with such transport.	Section 5.4, Subsection 5.4.3, pp. 5.4-32 to 5.4-36	No	See DR TRANS-4
Appendix B (i) (1) (A)	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and	Section 5.4, Subsection 5.4.5, pp. 5.4-37 to 5.4-42	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete  X

Technical Area:  **Traffic and Transportation**

Project Manager:  Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project:  Darden Clean Energy Project

Docket:  23-OPT-02

Revision No.  0  Date:  12/11/2023

Technical Staff:  Ashley Gutierrez

Technical Senior:  Steven Kerr

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and			
Appendix B (i) (1) (B)	Tables that identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.	Section 5.4, Subsection 5.4.6, pp. 5.4-42 to 5.4-43	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.	Section 5.4, Subsection 5.4.6, pp. 5.4-42 to 5.4-43	No	See DR TRANS-9
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.4, Subsection 5.4.7, p. 5.4-43	Yes	

Completeness Issue:

Complete  Incomplete

**DATA COMPLETENESS WORKSHEET**

Revision No. 0 Date: 12/11/2023

Technical Area:  
Project Manager:

**Transmission System Safety & Nuisance**  
Ann Crisp & Lisa Worrall

Project: Darden Clean Energy Project  
Docket: 23-OPT-02

Technical Staff: Sudath Edirisuriya  
Technical Senior: Joseph Hughes

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Chapter 2, Sections 2.1 to 2.7; Chapter 4, Subsections 4.2.3.1 and 4.2.3.2	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Chapter 2, Sections 2.1 to 2.7; Chapter 4, Subsections 4.2.3.1 and 4.2.3.2	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	Chapter 2, Sections 2.1 to 2.7	Yes	
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect, and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. Describe the approach, list or projection or a combination, used to develop the cumulative setting for the proposed project. Include any reference materials used such as general plan or other adopted local, regional, or statewide plan.	Chapter 1, Subsection 1.2.1 and 1.2.2; Chapter 2, Sections 2.1 to 2.7; Chapter 4, Subsection 4.1.1; Appendix F; Electrical plans E 101 to E 301	Yes	
Appendix B (g) (18) (A)	The locations and a description of the existing switchyards and overhead and underground	Chapter 2, Sections 2.1 to 2.7	Yes	

Completeness Issue:

Complete  Incomplete

**DATA COMPLETENESS WORKSHEET**

Revision No. 0 Date: 12/11/2023

Technical Area:  
Project Manager:

**Transmission System Safety & Nuisance**  
Ann Crisp & Lisa Worrall

Project: Darden Clean Energy Project  
Docket: 23-OPT-02

Technical Staff: Sudath Edirisuriya  
Technical Senior: Joseph Hughes

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	transmission lines that would be affected by the proposed project.			
Appendix B (g) (18) (B)	An estimate of the existing electric and magnetic fields from the facilities listed in (A) above and the future electric and magnetic fields that would be created by the proposed project, calculated at the property boundary of the site and at the edge of the rights of way for any transmission line. Also provide an estimate of the radio and television interference that could result from the project.	Chapter 4, Subsections 4.2.3.1 and 4.2.3.2	Yes	
Appendix B (g) (18) (C)	Specific measures proposed to mitigate identified impacts, including a description of measures proposed to eliminate or reduce radio and television interference, and all measures taken to reduce electric and magnetic field levels.	Chapter 4, Subsections 4.2.3.1 and 4.2.3.2	Yes	
Appendix B (i) (1) (A)	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Chapter 2, Sections 2.1 to 2.7	No	See DR TSD-7

Completeness Issue:

Complete  Incomplete

**DATA COMPLETENESS WORKSHEET**

Revision No. 0 Date: 12/11/2023

Technical Area:  
Project Manager:

**Transmission System Safety & Nuisance**  
Ann Crisp & Lisa Worrall

Project: Darden Clean Energy Project  
Docket: 23-OPT-02

Technical Staff: Sudath Edirisuriya  
Technical Senior: Joseph Hughes

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (i) (1) (B)	Tables that identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.	Chapter 2, Sections 2.1 to 2.7	No	See DR TSD-8
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.	Appendix C	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	N/A	N/A	N/A

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

Technical Area: Transmission System Design

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Sudath Edirisuriya

Technical Senior: Mark Hesters

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Chapter 2, Sections 2.1 to 2.7; Chapter 4, Section 4.2, Subsection 4.2.2, and Section 4.5	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Chapter 2, Sections 2.1 to 2.7; Chapter 4, Section 4.5	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	Chapter 2, Sections 2.1 to 2.7	Yes	
Appendix B (h) (2) (A)	A discussion of the need for the additional electric transmission lines, substations, or other equipment, the basis for selecting principal points of junction with the existing electric transmission system, and the capacity and voltage levels of the proposed lines, along with the basis for selection of the capacity and voltage levels.	Chapter 2, Sections 2.1 to 2.7; Chapter 4, Section 4.2, Subsection 4.2.2; Chapter 1, Subsections 1.2.1 and 1.2.2; Appendix F, Electrical plans E 101 to E 301	No	See DR TSD-2, DR TSD-3, and DR TSD-4
Appendix B (h) (2) (B)	A discussion of the extent to which the proposed electric transmission facilities have been designed, planned, and routed to meet the transmission requirements created by	Chapter 2, Sections 2.1 to 2.7; Chapter 4, Section 4.2, Subsection 4.2.2; Chapter 1, Subsections 1.2.1 and 1.2.2; Appendix F,	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

Technical Area: Transmission System Design

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Sudath Edirisuriya

Technical Senior: Mark Hesters

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	additional generating facilities planned by the applicant or any other entity.	Electrical plans E 101 to E 301		
Appendix B (b) (2) (C)	A detailed description of the design, construction, and operation of any electric transmission facilities, such as power lines, substations, switchyards, or other transmission equipment, which will be constructed or modified to transmit electrical power from the proposed power plant to the load centers to be served by the facility. Such description shall include the width of rights of way and the physical and electrical characteristics of electrical transmission facilities such as towers, conductors, and insulators.	Chapter 1, Subsections 1.2.1 and 1.2.2; Chapter 2 Sections 2.1 to 2.7; Chapter 4, Section 4.2, Subsection 4.2.2; Appendix F, Electrical plans E 101 to E 301	Yes	
Appendix B (b) (2) (D)	A description of how the route and additional transmission facilities were selected, and the consideration given to engineering constraints, environmental impacts, resource conveyance constraints, and electric transmission constraints.	Chapter 2, Sections 2.1 to 2.7; Appendix F, Electrical plans E 101 to E 301	Yes	
Appendix B (b) (2) (E)	A completed System Impact Study or signed System Impact Study Agreement with the California Independent System Operator and proof of payment. When not connecting to the California Independent System Operator controlled grid, provide the executed System Impact Study agreement and proof of payment to the interconnecting utility. If the interconnection and operation of the proposed project will likely impact a	Chapter 2, Subsection 2.1.2	No	See DR TSD-1

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

Technical Area: Transmission System Design

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Sudath Edirisuriya

Technical Senior: Mark Hesters

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	transmission system that is not controlled by the interconnecting utility (or California Independent System Operator), provide evidence of a System Impact Study or agreement and proof of payment (when applicable) with/to the impacted transmission owner or provide evidence that there are no system impacts requiring mitigation.			
Appendix B (i) (1) (A)	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Chapter 2, Sections 2.1 to 2.7	No	See DR TSD-7
Appendix B (i) (1) (B)	Tables that identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.	Chapter 2, Sections 2.1 to 2.7	No	See DR TSD-8
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency,	Appendix C	Yes	

Completeness

Issue: Complete  Incomplete

**DATA COMPLETENESS WORKSHEET**

Revision No. 0 Date: 12/11/2023

Technical Area: Transmission System Design

Project: Darden Clean Energy Project

Technical Staff: Sudath Edirisuriya

Project Manager: Ann Crisp & Lisa Worrall

Docket: 23-OPT-02

Technical Senior: Mark Hesters

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	and provide the name of the official who will serve as a contact person for Commission staff.			
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Chapter 2, Sections 2.1 to 2.7	No	See DR TSD-5

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

**DATA COMPLETENESS WORKSHEET**

Revision No. 0 Date: 12/11/2023

Technical Area: Visual Resources

Project: Darden Clean Energy Project

Technical Staff: Mark Hamblin

Project Manager: Ann Crisp & Lisa Worrall

Docket: 23-OPT-02

Technical Senior: Steven Kerr

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Section 5.5, Subsection 5.5.1.4 to 5.5.4, pp. 5.5-54 to 5.5-67	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Section 5.5, Subsection 5.5.1.1, pp. 5.5.-26 to 5.5-29	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	Section 5.5, Subsection 5.5.8, p. 5.5.-71	Yes	
Appendix B (g) (1)	... provide a discussion of the existing site conditions, the expected direct, indirect, and cumulative impacts due to the construction, operation, and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. Describe the approach, list or projection (or a combination of) used to develop the cumulative setting for the proposed project. Include any reference materials used such as general plan or other adopted local, regional, or statewide plan.	Section 5.5, Subsection 5.5.1.3 to 5.5.4, pp. 5.5-34 to 5.5-66	Yes	
Appendix B (g) (6) (A)	Provide a description of the existing landscape (built or natural) where the proposed project is to be sited and the vicinity, and along the proposed	Section 5.5, Subsection 5.5.1.1 and 5.5.1.2, pp. 5.5-1 to 5.5-3	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

**DATA COMPLETENESS WORKSHEET**

Revision No. 0 Date: 12/11/2023

Technical Area: Visual Resources

Project: Darden Clean Energy Project

Technical Staff: Mark Hamblin

Project Manager: Ann Crisp & Lisa Worrall

Docket: 23-OPT-02

Technical Senior: Steven Kerr

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	routes for any aboveground project-related linear facilities. Include:			
Appendix B (g) (6) (A) (i)	Show on a map(s) (pinpoint) any designated or recognized scenic vista and scenic resource within a five-mile radius of the project and one-mile radius of a project-related linear facility. Include:	Section 5.5, Subsection 5.5.1.2, pp. 5.5-2 to 5.5-3	Yes	
Appendix B (g) (6) (A) (i) a.	Any designated scenic vista and scenic resource in an adopted federal, state, county, or city government planning document, plan, or regulation.	Section 5.5, Subsection 5.5.1.2, pp. 5.5-2 to 5.5-3	Yes	
Appendix B (g) (6) (A) (i) b.	A natural feature or object that is a part of the land, such as a geologic distinguishing characteristic (e.g., laccolith), geomorphologic feature (e.g., gorge), or other terrain feature (e.g., a water body, open space, or a tree recognized for its aesthetic, botanical and ecological value, or age, rarity, and size).	Section 5.5, Subsection 5.5.1.2, pp. 5.5-2 to 5.5-3	Yes	
Appendix B (g) (6) (A) (i) c.	A man-made feature or object that embodies elements of architecture or engineering design, detail, materials or craftsmanship that represent a significant innovation or is unique, such as the California State Capitol, Golden Gate Bridge, or Hollywood Sign.	Section 5.5, Subsection 5.5.1.2, pp. 5.5-2 to 5.5-3	Yes	
Appendix B (g) (6) (A) (i) d.	Explain does the project eliminate or obstruct the public view (the visible area from a location where the public has a legal and physical right of access to real property) of a scenic vista and scenic resource? Is the project situated so that it changes the visual aspect of a scenic resource by being different or in sharp contrast?	Section 5.5, Subsection 5.5.1.2, pp. 5.5-2 to 5.5-3	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

**DATA COMPLETENESS WORKSHEET**

Revision No. 0 Date: 12/11/2023

Technical Area: Visual Resources

Project: Darden Clean Energy Project

Technical Staff: Mark Hamblin

Project Manager: Ann Crisp & Lisa Worrall

Docket: 23-OPT-02

Technical Senior: Steven Kerr

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (g) (6) (A) (ii)	Describe the existing nighttime lighting on the project site and in the vicinity.	Section 5.5, Subsection 5.5.1.2, p. 5.5-3	Yes	
Appendix B (g) (6) (B)	In accordance with CEQA Guidelines as found in 14 CCR Division 6, Chapter 3, Appendix G Environmental Checklist Form, I. Aesthetics c, if the project is to be constructed within an "urbanized area" as defined in Public Resources Code section 21071, explain the project's conformance with the city/county General Plan, and city municipal code or county government code (e.g., zoning) governing scenic quality.	N/A.	N/A	N/A
Appendix B (g) (6) (C)	In accordance with CEQA Guidelines as found in 14 CCR Division 6, Chapter 3, Appendix G Environmental Checklist Form, I. Aesthetics c, if the project is to be constructed within a non-urbanized area provide the following:	--	--	--
Appendix B (g) (6) (C) (i)	Show on a map the pinpoint location of the key observation point(s) (KOP) for the project. A KOP is a fixed position in a publicly accessible location where a public view of the project is analyzed and/or evaluated in the landscape. Objects of aesthetic significance are the primary focus in the KOP selection.	Section 5.5, Subsection 5.5.1.1, Figure 5.5-3 p. 5.5-35	Yes	
Appendix B (g) (6) (C) (ii)	If an object of aesthetic significance is not in the vicinity of the project, a KOP is to be selected based on importance to stakeholders, visibility, direct public selection, worst-case scenario, or other reason. Explain the reason the KOP was chosen. At a minimum two KOPs are to be selected.	Section 5.5, Subsection 5.5.1.1, pp. 5.5-28 to 5.5-29	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

**DATA COMPLETENESS WORKSHEET**

Revision No. 0 Date: 12/11/2023

Technical Area: Visual Resources

Project: Darden Clean Energy Project

Technical Staff: Mark Hamblin

Project Manager: Ann Crisp & Lisa Worrall

Docket: 23-OPT-02

Technical Senior: Steven Kerr

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (g) (6) (C) (iii)	Provide a color photograph(s) showing an actual line of sight at eye level during daytime and clear weather from the KOP to the project site prior to any alteration (existing condition). The photographer at the KOP is to use a standard lens. For each photograph provide the following information: camera type, lens focal length, viewing angle; date and time the photograph was taken, and the distance to the project site.	Section 5.5, Subsection 5.5.1.3, pp. 5.5-36 to 5.5-47	Yes	
Appendix B (g) (6) (C) (iv)	Using the photograph from the KOP provide a spatially accurate and realistically photo manipulated computer simulated image of the project (photo-realistic simulation) one-year after completion of construction (existing condition plus proposed project).	Section 5.5, Subsection 5.5.1.3, pp. 5.5-36 to 5.5-47	Yes	
Appendix B (g) (6) (C) (v)	The KOP photograph and the photo-realistic simulation are to be capable of 11" x 17" color print by a printer capable at a minimum 600 dots per inch output resolution.	Kiteworks	No	See DR VIS-1
Appendix B (g) (6) (C) (vi)	Provide a copy of the KOP photograph(s) and photo-realistic simulation(s) in an electronic file.	Kiteworks	No	See DR VIS-1
Appendix B (g) (6) (D)	Show and describe the project in the landscape.	Section 5.5, Subsection 5.5.1.3, pp. 5.5-50 to 5.5-54	Yes	
Appendix B (g) (6) (D) (i)	Provide an 8.5" x 11" sized scaled elevation(s) of project buildings, structures, and major equipment; a table listing their dimensions (height, length, width, diameter).	Appendix F	Yes	
Appendix B (g) (6) (D) (ii)	Provide a table and description of the exterior surface treatments and finishes for the buildings,	Section 5.5, Subsection 5.5.1.2, Table 5.5-1 pp. 5.5-30 to 5.5-33	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

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SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	structures, major equipment (e.g., colors, flat and/or textured finishes), and structural materials.			
Appendix B (g) (6) (D) (iii)	Describe project specific architectural treatment or design technique mitigation unique to the project's siting at the location (e.g., camouflage, disguise, screen), if any.	Section 5.5	Yes	
Appendix B (g) (6) (D) (iv)	Provide a project specific conceptual landscape design plan that conforms with the city municipal code or county government code. Include:	Section 5.5, Subsection 5.5.1.2, p. 5.5-30	Yes	
Appendix B (g) (6) (D) (iv) a.	the type of plant and/or tree species, location, quantity, size, spacing at installation/planting, expected growth rates, and expected heights at one-year, five years, and maturity. Specify irrigation system components and show their locations.	Same as above	Yes	
Appendix B (g) (6) (D) (iv) b.	the calculated total pervious surface amount for the project site; include the surface to be replaced, the new surface, and the total area to be landscaped.	Same as above	Yes	
Appendix B (g) (6) (D) (v)	Provide a project specific conceptual outdoor lighting control and management plan (lighting plan) and explain the control of reflectance from exterior surfaces offsite that conform with the city municipal code or county government code.	Section 5.5, Subsection 5.5.1.4, pp. 5.5-61 to 5.5-66	Yes	
Appendix B (g) (6) (D) (v) a.	Provide a list of the project-specific luminaires, identify the design (e.g., full cutoff, semi cutoff, non cutoff) and indicate if the luminaires have the International Dark-Sky Association Fixture Seal of Approval to the extent feasible consistent with safety and security considerations. Show the	Section 5.5, Subsection 5.5.1.2, p. 5.5-34, and Subsection 5.5.1.4 pp. 5.5.61 to 5.5-66	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

**DATA COMPLETENESS WORKSHEET**

Revision No. 0 Date: 12/11/2023

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Technical Senior: Steven Kerr

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	project-specific luminaires locations on a diagram or elevation.			
Appendix B (g) (6) (D) (v) b.	Describe reflectance, the intensity of the specular reflectance from the exterior surface of the project's large buildings, structures, and major equipment offsite to the surrounding area (e.g., the light reflected from the shiny surface). The reflectance of the object—how bright it shines—depends on the intensity of the light striking it and the materials from which it is made (e.g., glass, reinforced concrete, structural steel).	Section 5.5, Subsection 5.5.1.4, pp. 5.5-62 to 5.5-65	Yes	
Appendix B (g) (6) (E)	If the project is to use a cooling tower emitting a publicly visible water vapor plume (visible plume) in the atmosphere provide the following information:	Section 5.5, Subsection 5.5.1.3, p. 5.5.34	Yes	
Appendix B (g) (6) (E) (i)	Provide the cooling tower's number of fan cells, the fan cell stack height and diameter, the exhaust mass flow rate, heat rejection rate, and exhaust temperature.	Section 5.5, Subsection 5.5.1.3, p. 5.5.34	Yes	
Appendix B (g) (6) (E) (ii)	Provide fogging curves specific to the cooling tower's exhaust discharge for at least three ambient air temperature conditions (a low, average, and high temperature condition).	Section 5.5, Subsection 5.5.1.3, p. 5.5.34	Yes	
Appendix B (g) (6) (E) (iii)	Explain if the project's forecasted visible plume emitted in the atmosphere by the cooling tower would eliminate or obstruct an existing public view of a designated or recognized scenic vista, scenic resource, and the existing visual character or quality of public views of the site and its surroundings.	Section 5.5, Subsection 5.5.1.3, p. 5.5.34	Yes	

Completeness

Issue: Complete \_\_\_\_\_ Incomplete X

**DATA COMPLETENESS WORKSHEET**

Revision No. 0 Date: 12/11/2023

Technical Area: Visual Resources

Project: Darden Clean Energy Project

Technical Staff: Mark Hamblin

Project Manager: Ann Crisp & Lisa Worrall

Docket: 23-OPT-02

Technical Senior: Steven Kerr

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (i) (1) (A)	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 5.5, Subsection 5.5.5. to 5.5.1.3, Table 5.5-3, pp. 5.5-68 to 5.5-69	Yes	
Appendix B (i) (1) (B)	Tables that identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Section 5.5, Subsection 5.5.6, p. 5.5-70	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Section 5.5, Subsection 5.5.6, p. 5.5-70	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.5, Subsection 5.5.7, p. 5.5-70	Yes	

**DATA COMPLETENESS WORKSHEET**

Complete  Incomplete  Revision No. 0 Date: 12/11/2023  
 Technical Area: Waste Management Project: Darden Clean Energy Project Technical Staff: A. White/J. Ackerman  
 Project Manager: Ann Crisp & Lisa Worrall Docket: 23-OPT-02 Technical Senior: Abdel-Karim Abulaban

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Cal. Code Regs., tit. 20, § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Section 5.11, Subsection 5.11.3, pp. 5.11-11 to 5.11-16	Yes	
Cal. Code Regs., tit. 20, § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	N/A	N/A	N/A
Cal. Code Regs., tit. 20, § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	Section 5.11, Subsection 5.11.8, pp. 5.11-23 to 5.11-25	Yes	
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect, and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. Describe the approach, list or projection or a combination, used to develop the cumulative setting for the proposed project. Include any reference materials used such as general plan or	Section 5.11, Subsection 5.11.1, p. 5.11-1; Subsection 5.11.1.3, p. 5.11-5, Table 5.11-1, p. 5.11-7, Table 5.11-2; Subsection 5.11.1.4, pp. 5.11-9 and 5.11-10, Table 5.11-3; Subsection 5.11.3.2, pp. 5.11-12 to 5.11-16; Subsection 5.11.4, p. 5.11-16	Yes	

**DATA COMPLETENESS WORKSHEET**

Complete  Incomplete  Revision No. 0 Date: 12/11/2023  
 Technical Area: **Waste Management** Project: Darden Clean Energy Project Technical Staff: A. White/J. Ackerman  
 Project Manager: Ann Crisp & Lisa Worrall Docket: 23-OPT-02 Technical Senior: Abdel-Karim Abulaban

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	other adopted local, regional, or statewide plan.			
Appendix B (g) (12) (A)	A Phase I Environmental Site Assessment (ESA) for the proposed power plant site using methods prescribed by the American Society for Testing and Materials (ASTM) document entitled "Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process" (Designation: E 1527-93, May 1993), which is incorporated by reference in its entirety; or an equivalent method agreed upon by the applicant and Commission Staff that provides similar documentation of the potential level and extent of site contamination. The Phase I ESA shall have been completed no earlier than one year prior to the filing of the application.	Section 5.11, Subsection 5.11.1, p. 5.11-1; Subsection 5.11.1.1 pp. 5.11-2 to 5.11-5	Yes	
Appendix B (g) (12) (B)	A description of each waste stream estimated to be generated during project construction and operation, including origin, hazardous or nonhazardous classification pursuant to Title 22, California Code of Regulations, § 66261.20 et seq., chemical composition, estimated annual weight or volume generated, and estimated frequency of generation.	Section 5.11, Subsection 5.11.1.3, Tables 5.11-1 and 5.11-2	No	See DR WASTE-1
Appendix B (g) (12) (C)	A description of all waste disposal sites which may feasibly be used for disposal of project wastes. For each site, include the	Section 5.11, Subsection 5.11.1.4, Table 5.11-3	Yes	

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Complete  Incomplete  Revision No. 0 Date: 12/11/2023  
 Technical Area: **Waste Management** Project: Darden Clean Energy Project Technical Staff: A. White/J. Ackerman  
 Project Manager: Ann Crisp & Lisa Worrall Docket: 23-OPT-02 Technical Senior: Abdel-Karim Abulaban

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	name, location, classification under California Code of Regulations, title 23, section 2530 et seq., the daily or annual permitted capacity, daily or annual amounts of waste currently being accepted, the estimated closure date and remaining capacity, and a description of any enforcement action taken by local or state agencies due to waste disposal activities at the site.			
Appendix B (g) (12) (D)	A description of management methods for each waste stream, including methods used to minimize waste generation, length of on- and off-site waste storage, re-use and recycling opportunities, waste treatment methods used, and use of contractors for treatment.	Section 5.11, Subsection 5.11.3, pp. 5.11-11 to 5.11-16	Yes	
Appendix B (i) (1) (A)	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 5.11, Subsection, 5.11.5, Table 5.11-4	Yes	

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 Technical Area: **Waste Management** Project: Darden Clean Energy Project Technical Staff: A. White/J. Ackerman  
 Project Manager: Ann Crisp & Lisa Worrall Docket: 23-OPT-02 Technical Senior: Abdel-Karim Abulaban

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (i) (1) (B)	Tables that identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.	Section 5.11, Subsection 5.11.6, Table 5.11-5	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.	Section 5.11, Subsection 5.11.6, Table 5.11-5	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.11, Subsection 5.11.7, Table 5.11-6	Yes	

**DATA ADEQUACY WORKSHEET**

Completeness

Issue: Complete \_\_\_\_\_ Incomplete  X

Technical Area:  Water Resources

Project Manager:  Ann Crisp & Lisa Worrall

Project:  Darden Clean Energy Project

Docket:  23-OPT-02

Revision No.  0  Date:  12/11/2023

Technical Staff:  A. White/J. Ackerman

Technical Senior:  Abdel-Karim Abulaban

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Chapter 1; Chapter 2, Section 5-11; Section 5-13; Appendix S	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Chapter 1; Chapter 2; Section 5-11; Section 5-13; Appendix S	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	Chapter 1; Chapter 2; Section 5-11; Section 5-13; Appendix S	Yes	
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect, and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. Describe the approach, list or projection or a combination, used to develop the cumulative setting for the proposed project. Include any reference materials used such as general plan or other adopted local, regional, or statewide plan.	Chapter 1; Chapter 2; Section 5-11; Section 5-13; Appendix S	Yes	
Appendix B (g) (14) (A)	All the information required to apply for the following permits, if applicable, including:	--	--	--

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Issue: Complete \_\_\_\_\_ Incomplete  X

Technical Area:  Water Resources

Project Manager:  Ann Crisp & Lisa Worrall

Project:  Darden Clean Energy Project

Docket:  23-OPT-02

Revision No.  0  Date:  12/11/2023

Technical Staff:  A. White/J. Ackerman

Technical Senior:  Abdel-Karim Abulaban

<b>SITING REGULATIONS</b>	<b>INFORMATION</b>	<b>APPLICATION PAGE NUMBER AND SECTION NUMBER</b>	<b>ADEQUATE YES OR NO</b>	<b>INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS</b>
Appendix B (g) (14) (A) (i)	Waste Discharge Requirements; National Pollutant Discharge Elimination System Permit; and/or a Section 401 Certification or Waiver from the appropriate Regional Water Quality Control Board (RWQCB);	Section 5-13' Subsection 5.13.1.6, p. 5.13-43	No	See DR WATER-1 to DR WATER-3 and DR WATER-7
Appendix B (g) (14) (A) (ii)	Construction and Industrial Waste Discharge or Industrial Pretreatment permits from wastewater treatment agencies;	Section 5.13, Subsection 5.13.7, pp. 5.13-77 to 5.13-78, Table 5.13-18,	No	See DR WATER-8 and DR WATER-12
Appendix B (g) (14) (A) (iii)	Nationwide Permits and/or Section 404 Permits from the U.S. Army Corps of Engineers; and	Section 5-13, Subsection 5.13.7, p. 5.13-77	No	See DR WATER-12
Appendix B (g) (14) (A) (iv)	Underground Injection Control Permit(s) from the U.S. Environmental Protection Agency, California Division of Oil and Gas, and RWQCB.	Section 5-13, Subsection 5.13.7, pp. 5.13-78 to 5.13-79	No	See DR WATER-3
Appendix B (g) (14) (B)	A detailed description of the hydrologic setting of the project. The information shall include a narrative discussion and on maps at a scale of 1:24,000 (or appropriate scale approved by staff), describing the chemical and physical characteristics of the following nearby water bodies that may be affected by the proposed project:	--	--	--
Appendix B (g) (14) (B) (i)	Ground water bodies and related geologic structures;	Section 5-13, Subsection 5.13.1.1, pp. 5.13-1 to 5.13-26	No	See DR WATER-3 and DR WATER-11
Appendix B (g) (14) (B) (ii)	Surface water bodies;	Section 5.13, Subsection 5.13.1.2, Subsection 5.13.7, pp. 5.13-27 to 5.13-31	Yes	

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Technical Area:  Water Resources

Project Manager:  Ann Crisp & Lisa Worrall

Project:  Darden Clean Energy Project

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Technical Senior:  Abdel-Karim Abulaban

<b>SITING REGULATIONS</b>	<b>INFORMATION</b>	<b>APPLICATION PAGE NUMBER AND SECTION NUMBER</b>	<b>ADEQUATE YES OR NO</b>	<b>INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS</b>
Appendix B (g) (14) (B) (iii)	Water inundation zones, such as the 100-year flood plain and tsunami run-up zones;	Section 5.13, Subsection 5.13.7, Subsection 5.13.1.4, pp. 5.13-37 to 5.13-40	Yes	
Appendix B (g) (14) (B) (iv)	Flood control facilities (existing and proposed); and	Section 5-13, Subsection 5.13.1, p. 5.13-1	No	See DR WATER-19
Appendix B (g) (14) (B) (v)	Groundwater wells within ½ mile if the project will include pumping.	Section 5-13, Subsection 5.13.1.1, pp. 5.13-17 to 5.13-26	No	See DR WATER-9
Appendix B (g) (14) (C)	A description of the water to be used and discharged by the project. This information shall include:	--	--	--
Appendix B (g) (14) (C) (i)	Source(s) of the primary and back-up water supplies and the rationale for their selection;	Section 5-13, Subsection 5.13.1.6, pp. 5.13-41 to 5.13-44; Appendix S, Part 1	No	See DR WATER-14, DR WATER-15, and DR WATER-17
Appendix B (g) (14) (C) (ii)	The expected physical and chemical characteristics of the source and discharge water(s) including identification of both organic and inorganic constituents before and after any project-related treatment. For source waters with seasonal variation, provide seasonal ranges of the expected physical and chemical characteristics. Provide copies of background material used to create this description (that is, laboratory analysis);	Section 5-13, Subsection 5.13.1.6, p. 5.13-43	No	See DR WATER-1, DR WATER-3 to DR WATER-5, DR WATER-7, DR WATER-10, and DR WATER-11
Appendix B (g) (14) (C) (iii)	Average and maximum daily and annual water demand and waste water discharge for both the construction and operation phases of the project;	Section 5-13, Subsection 5.13.1.6, p. 5.13-43	No	See DR WATER-1 and DR WATER-15

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Technical Area:  Water Resources

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Project:  Darden Clean Energy Project

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SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (g) (14) (C) (iv)	A detailed description of all facilities to be used in water conveyance (from primary source to the power plant site), water treatment, and wastewater discharge. Include a water mass balance diagram;	Section 5-13, Subsection 5.13.1.6, p. 5.13-44, Table 5.13-9,	No	See DR WATER-16
Appendix B (g) (14) (C) (v)	For all water supplies intended for industrial uses to be provided from public or private water purveyors, a letter of intent or will-serve letter indicating that the purveyor is willing to serve the project, has adequate supplies available for the life of the project, and any conditions or restrictions under which water will be provided. If a will-serve letter or letter of intent cannot be provided, identify the most likely water purveyor and discuss the necessary assurances from the water purveyor to serve the project;	Appendix S, Part 1, pp. 1 to 5	No.	See DR WATER-14
Appendix B (g) (14) (C) (vi)	For all water supplied which necessitates transfers and/or exchanges at any point, identify all parties and contracts/agreements involved, the primary source for the transfer and/or exchange water (that is, surface water, groundwater), and provide the status of all appropriate agencies' approvals for the proposed use, environmental impact analysis on the specific transfers or exchanges required to obtain the proposed supplies, a copy of any agency regulations that govern the use of the water, and an explanation of how the project complies with the agency regulation(s);	Appendix S, Part 1, pp. 1 to 5	No	See DR WATER-14

**DATA ADEQUACY WORKSHEET**

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Technical Area: Water Resources

Project Manager: Ann Crisp & Lisa Worrall

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No.  0  Date:  12/11/2023

Technical Staff:  A. White/J. Ackerman

Technical Senior:  Abdel-Karim Abulaban

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (g) (14) (C) (vii)	Provide water mass balance and heat balance diagrams for both average and maximum flows that include all process or ancillary water supplies and wastewater streams. Highlight any water conservation measures on the diagram and the amount that they reduce water demand; and	Section 5-13, Subsection 5.13.1.5, p. 5.13-41; Subsection 5.13.1.6, p. 5.13-43, Table 5.13-7	No	See DR WATER-1, DR WATER-6, DR WATER-7, DR WATER-13, and DR WATER-15
Appendix B (g) (14) (C) (viii)	<p>For all projects which have a discharge, provide a copy of the will-serve letter, permit or contract with the public or private entity that will be accepting the wastewater and contact storm water from the project. The letter, permit or contract, if possible, shall identify the discharge volumes and the chemical or physical characteristics under which the wastewater and contact storm water will be accepted.</p> <p>In the event that a will-serve letter, permit, or contract cannot be provided, identify the most likely wastewater/storm water entity and discuss why the applicant was unable to secure the necessary assurances to serve the project's wastewater/storm water needs. Also, discuss the term of the wastewater service to the project, whether the wastewater entity has adequate permit capacity for the volume of wastewater from the project and has adequate permit levels for the chemical/physical characteristics of the project's wastewater and storm water for the life of the project, and any</p>	Section 5-13, Subsection 5.13.7, p. 5.13-78	Yes	

**DATA ADEQUACY WORKSHEET**

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Issue: Complete  Incomplete

Technical Area: Water Resources

Project Manager: Ann Crisp & Lisa Worrall

Project: Darden Clean Energy Project

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Revision No. 0 Date: 12/11/2023

Technical Staff: A. White/J. Ackerman

Technical Senior: Abdel-Karim Abulaban

<b>SITING REGULATIONS</b>	<b>INFORMATION</b>	<b>APPLICATION PAGE NUMBER AND SECTION NUMBER</b>	<b>ADEQUATE YES OR NO</b>	<b>INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS</b>
	issues or conditions/restrictions the wastewater entity may impose on the project.			
Appendix B (g) (14) (D)	Identify all project elements associated with stormwater drainage, including a description of the following:	--	--	--
Appendix B (g) (14) (D) (i)	Monthly and seasonal precipitation and stormwater runoff and drainage patterns for the proposed site and surrounding area that may be affected by the project's construction and operation;	Section 5-13, Subsection 5.13.1.3, p. 5.13-32 to 5.13-36	Yes	
Appendix B (g) (14) (D) (ii)	Drainage facilities and the design criteria used for the plant site and ancillary facilities, including but not limited to capacity of designed system, design storm, and estimated runoff;	Section 5-13, Subsection 5.13.3.2, p. 5.13-46 to 5.13-69	Yes	
Appendix B (g) (14) (D) (iii)	All assumptions and calculations used to calculate runoff and to estimate changes in flow rates between pre- and post-construction; and	Section 5-13, Subsection 5.13.3.2, p. 5.13-48	No	See DR WATER-20
Appendix B (g) (14) (D) (iv)	A copy of applicable regional and local requirements regulating the drainage systems, and a discussion of how the project's drainage design complies with these requirements.	Section 5-13, Subsection 5.13.5.2, p. 5.13-73	No	See DR WATER-21
Appendix B (g) (14) (E)	An impacts analysis of the proposed project on water resources and a discussion of conformance with water-related LORS and policy. This discussion shall include:	--	--	--
Appendix B (g) (14) (E) (i)	The effects of project demand on the water supply and other users of this source, including, but not limited to, water availability for other uses during construction or after the power plant begins operation, consistency of the water use with applicable RWQCB basin plans or other	Appendix S	Yes	

**DATA ADEQUACY WORKSHEET**

Completeness

Issue: Complete        Incomplete   X  

Technical Area: Water Resources

Project Manager: Ann Crisp & Lisa Worrall

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No.   0   Date: 12/11/2023

Technical Staff: A. White/J. Ackerman

Technical Senior: Abdel-Karim Abulaban

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	applicable resource management plans, and any changes in the physical or chemical conditions of existing water supplies as a result of water use by the power plant;			
Appendix B (g) (14) (E) (ii)	If the project will pump groundwater, an estimation of aquifer drawdown based on a computer modeling study shall be conducted by a professional geologist and include the estimated drawdown on neighboring wells within 0.5 mile of the proposed well(s), any effects on the migration of groundwater contaminants, and the likelihood of any changes in existing physical or chemical conditions of groundwater resources shall be provided;	Section 5-13, Subsection 5.13.1.6, p. 5.13-41	Yes	
Appendix B (g) (14) (iii)	The effects of construction activities and plant operation on water quality and to what extent these effects could be mitigated by best management practices;	Section 5-13, Subsection 5.13.3.2, pp. 5.13-47 to 5.13-49	Yes	
Appendix B (g) (14) (iv)	If not using a zero liquid discharge project design for cooling and process waters, include the effects of the proposed wastewater disposal method on receiving waters, the feasibility of using pre-treatment techniques to reduce impacts, and beneficial uses of the receiving waters. Include an explanation why the zero liquid discharge process is "environmentally undesirable," or "economically unsound;"	Section 5-13, Subsection 5.13.1.6, p. 5.13-43	No	See DR WATER-3
Appendix B (g) (14) (v)	If using fresh water, include a discussion of the cumulative impacts, alternative water supply sources and alternative cooling technologies	N/A	N/A	N/A

**DATA ADEQUACY WORKSHEET**

Completeness

Issue: Complete \_\_\_\_\_ Incomplete  X

Technical Area:  Water Resources

Project Manager:  Ann Crisp & Lisa Worrall

Project:  Darden Clean Energy Project

Docket:  23-OPT-02

Revision No.  0  Date:  12/11/2023

Technical Staff:  A. White/J. Ackerman

Technical Senior:  Abdel-Karim Abulaban

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	considered as part of the project design. Include an explanation of why alternative water supplies and alternative cooling are "environmentally undesirable," or "economically unsound;"			
Appendix B (g) (14) (vi)	The effects of the project on the 100-year flood plain, flooding potential of adjacent lands or water bodies, or other water inundation zones; and	Section 5-13, Subsection 5.13.1.4, pp. 5.13-37 to 5.13-40; Subsection 5.13.3.2, pp. 5.13-46 to 5.13-70	No	See DR WATER-22
Appendix B (g) (14) (vii)	All assumptions, evidence, references, and calculations used in the analysis to assess these effects.	Section 5-13, Subsection 5.13.1.4, pp. 5.13-37 to 5.13-40; Subsection 5.13.3.2, pp. 5.13-46 to 5.13-70	No	See DR WATER-22
Appendix B (i) (1) (A)	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 5-13, Subsection 5.13.5, pp. 5.13-70 to 5.13-79	No	See DR WATER-23
Appendix B (i) (1) (B)	Tables that identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local,	Section 5-13, Subsection 5.13.7, pp. 5.13-77 to 5.13-79	Yes	

**DATA ADEQUACY WORKSHEET**

Completeness

Issue: Complete  Incomplete

Technical Area: Water Resources

Project Manager: Ann Crisp & Lisa Worrall

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: A. White/J. Ackerman

Technical Senior: Abdel-Karim Abulaban

<b>SITING REGULATIONS</b>	<b>INFORMATION</b>	<b>APPLICATION PAGE NUMBER AND SECTION NUMBER</b>	<b>ADEQUATE YES OR NO</b>	<b>INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS</b>
	regional, state and federal land use plans, and agencies that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.			
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.	Section 5-11, Subsection 5.11.6, p. 5.11-21	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5-13, Subsection 5.13.7, pp. 5.13-77 to 5.13-78	No	See DR WATER-18

Completeness

Issue: Complete  Incomplete

Technical Area: Wildfire

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Brett Fooks

Technical Senior: Brett Fooks

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Section 5.17, Subsections 5.17.2, 5.17.3, 5.17.3.1 and 5.17.3.2; pp. 5.17-8 to 5.17-9	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	N/A	N/A	N/A
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	Section 5.17, Subsection 5.17.8; p. 5.17-18	Yes	
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect, and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. Describe the approach, list or projection or a combination, used to develop the cumulative setting for the proposed project. Include any reference materials used such as general plan or other adopted local, regional, or statewide plan.	Subsections 5.17.1.1 to 5.17.1.6, pp. 5.17-1 to 5.17-5, Subsection 5.17.3.2; pp. 5.17-8 to 5.17-12, Subsection 5.17.4, p. 5.17-12	Yes	
Appendix B (g) (19) (A)	A map showing State Responsibility Areas (SRA,) as defined in Public Resources Code section 4102, relative to the proposed project.	Section 5.17, p. 5.17-6, Figure 5.17-1	Yes	

Completeness  
Issue:  
Technical Area:  
Project Manager:

Complete  X  Incomplete \_\_\_\_\_  
**Wildfire**  
Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project  
Docket: 23-OPT-02

Revision No.  0  Date:  12/11/2023   
Technical Staff:  Brett Fooks   
Technical Senior:  Brett Fooks

<b>SITING REGULATIONS</b>	<b>INFORMATION</b>	<b>APPLICATION PAGE NUMBER AND SECTION NUMBER</b>	<b>ADEQUATE YES OR NO</b>	<b>INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS</b>
Appendix B (g) (19) (B)	A map showing state Fire Hazard Severity Zones, as defined in 14 CCR section 1280.01, relative to the proposed project.	Section 5.17, p. 5.17-7, Figure 5.17-2	Yes	
Appendix B (g) (19) (A)	If the project would be in the vicinity of an SRA or a Very High Fire Hazard Severity Zone, as defined in 14 CCR section 1265.00, provide:	N/A	N/A	N/A
Appendix B (g) (19) (A)	Local emergency response or evacuation plans and a description of how the proposed project could influence their effectiveness.	Subsection 5.17.3.2, p. 5.17-9 to 5.17-10	Yes	
Appendix B (g) (19) (A)	A discussion of how potential project pollutants could be contained onsite during a wildfire event.	Pages 5.17-9 to 5.17-10, Subsection 5.17.3.2	Yes	
Appendix B (g) (19) (A)	A description of infrastructure that would be built or maintained (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate the risk of wildfire.	Subsection 5.17.3.2, pp. 5.17-10 to 5.17-11	Yes	
Appendix B (g) (19) (A)	Describe people or structures downslope or downstream of the proposed project that could be impacted by flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes.	Subsection 5.17.3.2, pp. 5.17-11 to 5.17-12	Yes	

Completeness

Issue: Complete  Incomplete

Technical Area: Worker Safety

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Alvin Greenberg

Technical Senior: Brett Fooks

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Subsection 5.10.2, p. 5.10-1, Tables 5.10-1 and 5.10-2	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Subsection 5.10.6, p. 5.10-29	Yes	
Cal. Code Regs. Tit. 20 § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;	Subsection 5.10.6, p. 5.10-29	Yes	
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect, and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. Describe the approach, list or projection or a combination, used to develop the cumulative setting for the proposed project. Include any reference materials used such as general plan or other adopted local, regional, or statewide plan.	Subsection 5.10, p. 5.10-1	No	See DR WS-1 to DR WS-4

Completeness

Issue: Complete  Incomplete

Technical Area: Worker Safety

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Alvin Greenberg

Technical Senior: Brett Fooks

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
Appendix B (g) (11) (A)	A description of the safety training programs that will be required for construction and operation personnel.	Chapter 2, Subsection 2.1.11, p. 2-15; Chapter 4, Subsection 4.1.4, pp. 4-3 to 4-5, Figure 4-1; Subsection 5.10.2.4, pp. 5.10-8 to 5.10-14	No	See DR WS-2
Appendix B (g) (11) (B)	A complete description of the fuel handling system and the fire suppression system.	Chapter 2, Subsection 2.1.11, p. 2-15; Subsection 5.10.2.4, pp. 5.10-15 to 5.10-16; Appendix P	No	See DR WS-3
Appendix B (g) (11) (C)	Provide draft outlines of the Construction Health and Safety Program and the Operation Health and Safety Program, as follows:	--	--	--
	Construction Health and Safety Program:	Section 5.10, Subsection 5.10.2.4, pp. 5.10-8 to 5.10-9	No	See DR WS-1
	• Injury and Illness Prevention Plan (8 Cal. Code Regs., section 1509);			
	• Fire Protection and Prevention Plan (8 Cal. Code Regs., section 1920);	Section 5.10, Subsection 5.10.2.4, pp. 5.10-8 to 5.10-9	No	See DR WS-3
	• Personal Protective Equipment Program (8 Cal. Code Regs., sections 1514-1522)	Section 5.10, Subsection 5.10.2.4, pp. 5.10-10	Yes	
	Operation Health and Safety Program:	Section 5.10, Subsection 5.10.2.4, pp. 5.10-11 to 5.10-12	No	See DR WS-1
	• Injury and Illness Prevention Program (8 Cal. Code Regs., section 3203);			
	• Fire Prevention Plan (8 Cal. Code Regs., section 3221);	Section 5.10, Subsection 5.10.2.4, pp. 5.10-12 to 5.10-13	No	See DR WS-3
	• Emergency Action Plan (8 Cal. Code Regs., section 3220);	Section 5.10, Subsection 5.10.2.4, pp. 5.10-13	Yes	

Completeness

Issue: Complete  Incomplete

Technical Area: Worker Safety

Project Manager: Ann Crisp & Lisa Worrall

**DATA COMPLETENESS WORKSHEET**

Project: Darden Clean Energy Project

Docket: 23-OPT-02

Revision No. 0 Date: 12/11/2023

Technical Staff: Alvin Greenberg

Technical Senior: Brett Fooks

SITING REGULATIONS	INFORMATION	APPLICATION PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE APPLICATION CONFORM WITH REGULATIONS
	<ul style="list-style-type: none"> <li>Personal Protective Equipment Program (8 Cal. Code Regs., sections 3401-3411).</li> </ul>	Section 5.10, Subsection 5.10.2.4, pp. 5.10-13	No	See DR WS-5
Appendix B (i) (1) (A)	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 5.10, p. 5.10.16-27, Table 5.10-5	No	See DR WS-1 and DR WS-2
Appendix B (i) (1) (B)	Tables that identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.	Section 5.10, Subsection 5.10.4, p. 5.10-27, Table 5.10-6	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.	Section 5.10, Subsection 5.10.4, p. 5.10-27, Table 5.10-6	No	See DR WS-6
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.10, Subsection 5.10.5, p. 5.10-28, Table 5.10-7	Yes	

# **Attachment B**

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Title 20, Data Requests

## Attachment B Title 20, Data Requests

### AIR QUALITY

But for the California Energy Commission's (CEC's) jurisdiction and in lieu authority set forth in Public Resources Code section 25545.1(b)(1), any state or local air quality permit that would have been issued from the San Joaquin Valley Air Pollution Control District (District or SJVAPCD) will be incorporated into the CEC's certification. To facilitate the District's review of the project, the applicant can file with the District, the information required to obtain relevant permits. To ensure the District's requirements and mitigation are contained in the CEC's Environmental Impact Report (EIR) and certification, if the project is approved, staff needs copies of all correspondence between the applicant and the District in a timely manner to stay up to date on any issues that arise prior to completion of the environmental document.

**DR AQ-1.** Please provide copies of all substantive correspondence between the applicant and the District regarding the project, including applications and e-mails, within one week of submittal or receipt. This request remains in effect until staff publishes the environmental document.

**DR AQ-2.** Please provide a completeness determination letter from the SJVAPCD confirming that the application submitted to the District has been deemed complete.

Chapter 2 Project Description, page 2-16, states "Up to six self-contained backup diesel generators set (gensets) would supply emergency power to the hydrogen facility for all critical loads when electric power is not available". The application did not reference the manufacturer specification sheets for the proposed diesel-fueled emergency backup generators (backup generators) and ratings-related evidence to determine whether the backup generator engines would meet the current Best Available Control Technology (BACT) requirements. Backup generator engine manufacturer and emissions control device specifications sheets should be provided.

**DR AQ-3.** Please provide up-to-date manufacturer specification sheets showing backup generator engine and emissions control system performance specifications. Please include the stack heights and diameters, the exhaust velocities, and temperatures. This information should identify potential emissions for a foreseeable range of engine load settings, and documentation substantiating the effectiveness of proposed selective catalytic reduction (SCR) and diesel particulate filter (DPF) systems.

**DR AQ-4.** BACT for backup generator engines in the SJVAPCD is Tier IV and would require the use of an SCR. Please provide the project's estimated ammonia emissions in tons per year.

**DR AQ-5.** Please provide emission calculations to disclose the potential to emit (PTE) for the project, considering the District policy to include emissions resulting

from emergency operation of 100 hours per year per backup generator, in addition to the proposed levels of permitted emissions for readiness testing and maintenance. Please include emission rates of criteria pollutants and greenhouse gases (CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, and SF<sub>6</sub>) from the backup generator stacks.

**DR AQ-6.** Please describe how the load levels of the backup generators would be tested for reliability testing and maintenance.

**DR AQ-7.** Please describe situations when the backup generators would be dispatched in an emergency or for other reasons.

As indicated in Mitigation Measure AQ-1, the applicant will be entering into a Voluntary Emission Reduction Agreement (VERA) with the SJVAPCD. Staff needs additional information to determine how the VERA would be implemented, specifically the assumptions made for equivalency demonstration.

**DR AQ-8.** Please provide examples of how the VERA funds could be administered for this type of project.

**DR AQ-9.** Please describe how an equivalency for VERA funds would be calculated over the years, and would the SJVAPCD distribute these funds?

**DR AQ-10.** What entity would be reviewing and approving these VERA funds for this project?

The applicant performed an ambient air quality assessment (AAQA) specifically for carbon monoxide (CO) during both the construction and operational phases. The emissions of stationary sources were multiplied by the area sources results to estimate the concentrations. However, additional assessments are required by staff.

**DR AQ-11.** Please provide the additional results of the AAQA for nitrogen oxides (NO<sub>x</sub>), sulfur dioxide (SO<sub>2</sub>), particulate matter less than 10 microns in diameter (PM<sub>10</sub>) and particulate matter less than 2.5 micrometers in diameter (PM<sub>2.5</sub>) during the construction and operation periods respectively.

**DR AQ-12.** Please provide the proposed locations of all backup generators and provide the modeling results for readiness testing and maintenance at each location by treating them as point sources instead of multiplying their emissions by the area source results.

## **BIOLOGICAL RESOURCES**

**DR BIO-1.** Please describe the placement of the gen-tie poles or structures at the intersection of where the gen-tie line crosses over Cantua Creek. Information should include where and at what distance apart the gen-tie poles or structures would be placed east and west of Cantua Creek and any known potentially state-jurisdictional water features in an area which could be impacted by placement of gen-tie poles or

structures (see also **DR-BIO-26**). Include any measures that would be taken to protect and avoid impacts to Cantua Creek.

**DR BIO-2.** Please provide a map that shows the placement of gen-tie poles or structures to the east and west of Cantua Creek where the gen-tie line crosses.

**DR BIO-3.** Please discuss the hydrology of the entire project site as it pertains to the canals and whether any of the canals drain into the Fresno Slough.

**DR BIO-4.** Please describe the different water source(s) for irrigation of the farmlands in a one-mile buffer around the project site and a 1,000-foot buffer of the linear corridors (project site and linear buffers) identify if any water sources come from ground water. This information will allow California Department of Fish and Wildlife (CDFW) and CEC staff to fully evaluate the potential for impacts to occur within CDFW's jurisdiction under Fish and Game Code section 1600 et seq..

**DR BIO-5.** Please provide a table showing impacts by acreage (temporary and permanent), by project feature and land cover type.

**DR BIO-6.** Please explain why the applicant's proposed measure (APM) APM BIO-1 is in Chapter 2 Project Description, while Mitigation Measures BIO-1 through BIO-8 occur in Section 5.12 Biological Resources. Explain why there are two different types of measures proposed for impacts to biological resources (APM and BIO)?

**DR BIO-7.** Please provide monitoring plan details (particularly during construction and operation) for San Joaquin kit fox (*Vulpes macrotis*), American badger (*Taxidea taxus*), and burrowing owl (*Athene cunicularia*), as well as blunt-nosed leopard lizard (*Gambelia sila*), if necessary, based on **DR BIO-9**. The monitoring plans should include methods for pre-construction surveys, and avoidance and minimization measures proposed for construction and operations.

**DR BIO-8. [Reserved]**

**DR BIO-9.** Please provide a habitat assessment or survey results for blunt-nosed leopard lizard for the entire project site and linear buffers.

**DR BIO-10.** Please explain and provide supporting information for why the applicant considers there to be no suitable habitat or potential for blunt-nosed leopard lizard to occur in the project area.

**DR BIO-11.** Please provide proposed mitigation measures needed to fully avoid impacts to blunt-nosed leopard lizard if an individual were to wander into the project area or be encountered during construction and operation activities.

**DR BIO-12.** Please provide a complete list of plant species observed during surveys on the project site and linear facility corridor buffers.

**DR BIO-13.** Please define and describe survey buffers used for all surveys. There were some areas of the project that did not include the 1,000-foot linear facility corridor buffer. Please explain why this buffer was not surveyed.

**DR BIO-14.** If a minimum of at least a 1,000-foot buffer was not used for biological resources surveys around the entire project site and gen-tie line ROW, perform surveys in the 1,000-foot buffer.

**DR BIO-15.** Please provide a habitat assessment, documentation, and proposed avoidance and minimization measures to avoid potential impacts to tricolored blackbird (*Agelaius tricolor*). Tricolored blackbird are known to nest in alfalfa, wheat, and other low agricultural crop fields and therefore they could nest within and/or adjacent to the project site.

**DR BIO-16.** Please provide a discussion of all suitable habitat for tricolored blackbird in the project site and linear facility corridor buffers.

**DR BIO-17.** Please provide a map of all suitable habitat for tricolored blackbird in the project area including the 1,000-foot buffer.

**DR BIO-18.** Please provide map(s) of land cover types at a scale consistent with Appendix B (g) (13) (B) (i).

**DR BIO-19.** Please provide map(s) of the project site and linear facility corridor buffers identifying where pedestrian and windshield surveys were conducted.

**DR BIO-20.** Please perform nitrogen deposition modeling for the diesel-fueled emergency backup generators (backup generators), including the complete citation for references used (including the source document for documents not readily available online) in determining deposition rates and location. Specify the amount of total annual nitrogen deposition in kilograms of nitrogen per hectare per year (kg N/ha/yr) in special status species habitats and vegetation types for wet and dry deposition. Describe each habitat and species potentially affected by nitrogen deposition. Please provide modeled nitrogen deposition rates, map(s), and other information as specified for the project's backup generators. See Appendix B (g) (13) (B) (ii), Appendix B (g) (13) (C) (iii), and Appendix B (g) (15) (B) (ii). Please include a discussion of the potential for all anticipated emissions that may adversely affect soil-vegetation systems.

**DR BIO-21.** Please provide revised project GIS shapefiles identifying the proposed laydown area(s) and hydrogen pipeline stub.

**DR BIO-22.** Please provide a discussion of where the laydown area(s) would be and what it would be used for, including what types of items would be stored in the laydown area, what grading or other surface preparation would be required. Include avoidance and minimization measures for potential impacts to species, such as

burrowing owl and San Joaquin kit fox, which may utilize pipes and other equipment stored in these areas. Also, would the laydown area(s) be fenced, and if so, please describe the fencing.

**DR BIO-23.** Please provide copies of all California Natural Diversity Database (CNDDDB) forms for species listed by a state or federal agency and other special status species encountered during project surveys.

**DR BIO-24.** Please provide copies of any correspondence or records of conversations to confirm that CDFW was consulted regarding Swainson's hawk protocol guidance, per Appendix B (g) (13) (D) (i).

**DR BIO-25.** Please perform appropriate surveys for Crotch's bumble bee (*Bombus crotchii*) pursuant to CDFW protocol guidelines (CDFW 2023). Please coordinate with CDFW to ensure adherence to appropriate protocol (focal survey area(s) may be refined based upon the maps requested per **DR BIO-18**).

**DR BIO-26.** Please justify the determination that there are no CDFW jurisdictional features as determined under Fish and Game Code section 1600 et seq. See also **DR BIO-1** through **BIO-4**.

**DR BIO-27.** Please discuss potential impacts and avoidance measures, particularly during operations, when San Joaquin kit fox may be struck by vehicles, have dens crushed, or experience other direct impacts from project activities.

**DR BIO-28.** Please discuss potential impacts to blunt-nosed leopard lizard, burrowing owl, or other protected species, from artificial nuisance attractants or "subsidies" (e.g., trash/food waste, water, and perching/nest sites) for common raven (*Corvus corax*), and any known methods to avoid such impacts, particularly those associated with facility structures such as buildings and poles mounted at the ends of sub-arrays and along the gen-tie line (Options 1 and 2). These structures provide artificial perching opportunities for hunting.

**DR BIO-29.** Please provide a discussion of impacts resulting from artificial lighting, polarization of light, and any other potential adverse impacts to insects and avian fauna. Discuss also the potential "lake effect" of PV panels, which may act as an attractant to migratory birds. Also, provide a discussion of impacts on migratory birds, as well as potential adverse impacts to tricolored blackbird nesting habitat.

**DR BIO-30.** Please provide a discussion of noise and vibratory impacts to sensitive wildlife, particularly on fossorial mammals (American badger, burrowing owl, and San Joaquin kit fox), and whether proposed buffers are sufficient to avoid impacts to nesting migratory birds and raptors, particularly Swainson's hawk.

**DR BIO-31.** If nitrogen deposition impacts to sensitive species or habitat are anticipated (based on analysis performed in support of **DR BIO-20**), please discuss

these impacts on specific sensitive species or habitat that may be potentially adversely impacted.

**DR BIO-32.** Please discuss if there would be any temporary or permanent fencing around the project elements and what type of fencing material would be used.

**DR BIO-33.** If there would be fencing, please provide a map of where the fencing would occur for both construction and operations.

**DR BIO-34.** If there would be a fence, please discuss the potential impacts to listed and special-status species and provide mitigation measures to reduce impacts.

**DR BIO-35.** Please discuss potential impacts to burrowing owl. CEC staff and CDFW disagree with the applicant that the duration of construction impacts (18 to 36 months) are temporary in nature. Please provide further analysis on available burrows, including satellite burrows both on the project site and within all areas that could directly or indirectly affect burrowing owl, as defined by Appendix B (g) (13) (E), as well as all information as required in the 2012 CDFG guidelines (CDFG 2012). See **DR BIO-7**.

**DR BIO-36.** No compensatory mitigation was proposed in the application for foraging raptors. Appendix Q, Volume 2, Appendix Q-8, p. 16, states that "... 48% of the study area was conservatively assumed to be rendered unsuitable foraging for [Swainson's hawk] (i.e., permanently impacted by panel cover at peak horizontal orientation and other permanent project infrastructure)." Please discuss why compensatory mitigation was not provided for other aerially foraging raptors and owls (such as the northern harrier, golden eagle (*Aquila chrysaetos*), and great horned owl (*Bubo virginianus*), etc.) that could be impacted by the project including a similar reduction in available foraging habitat. Also, discuss avoidance, minimization, and mitigation measures for impacts to insects and avian fauna from artificial lighting, polarization of light, and any other potential adverse impacts to these species. In addition, discuss the potential "lake effect" of PV panels, which may act as an attractant to migratory birds, as well as any measures proposed to avoid and/or reduce potential adverse impacts to tricolored blackbird nesting habitat.

**DR BIO-37.** Please discuss any feasible mitigation measures, outside of a revegetation plan, for San Joaquin kit fox and burrowing owl, as well as provide an evaluation of the anticipated efficacy of the measures.

**DR BIO-38.** Please provide a mitigation measure that would reduce potential impacts to Crotch's bumble bee, see also **DR BIO-25** and **DR BIO-18**.

**DR BIO-39.** The applicant's proposed Mitigation Measure, BIO-1, item 3 discusses a "project biologist", whereas the applicant's APM BIO-1, items 3 and 4 discuss a "qualified biologist". Please clarify each term and provide a separate mitigation

measure which details the qualifications and duties of a “qualified biologist” and a “project biologist”.

**DR BIO-40.** No closure/revegetation plan was included as mitigation. Please prepare and submit a closure and revegetation mitigation measure that includes goals, objectives, and success criteria, etc.

**DR BIO-41.** The Swainson’s Hawk Conservation Strategy, included as Appendix V, needs to be provided as a mitigation measure which includes goals and objectives, performance criteria, regular monitoring schedules and reporting, etc. Please provide a mitigation measure to address potential impacts to Swainson’s hawk. Please include additional information regarding proposed measures to avoid impacts to Swainson’s hawk and other protected species during helicopter use.

**DR BIO-42.** The applicant’s proposed Vegetation Management Plan is included as Appendix D of Appendix U.3 in Appendix U, Volume 3. Please provide the Vegetation Management Plan as a standalone mitigation measure to address impacts to Swainson’s hawk. See also **DR BIO-43**.

**DR BIO-43.** The applicant’s proposed measure, APM BIO-1, included in Chapter 2, page 2-32 to 2-33, is inadequate since it lacks specific details regarding performance criteria, methodology, location of specific mitigation and management actions, at a minimum, for the following bullet points, listed in Section 2.4, page 2-33: preservation of existing nest trees; temporary nest structure establishment; and establishment of new nest trees, see also **DR BIO-42**.

**DR BIO-44.** Please provide proposed compensatory mitigation for burrowing owl. See also **DR BIO-37**.

**DR BIO-45.** Please submit any preliminary correspondence (emails and record of conversations) with state and federal resource agencies.

**DR BIO-46.** Several fully protected species (e.g., white-tailed kite (*Elanus leucurus*), golden eagle and blunt-nosed leopard lizard) are known or expected to occur onsite or immediately offsite based on species, yet there is no accompanying proposed mitigation. Please provide proposed mitigation measures to reduce potential impacts to these fully protected species.

**DR BIO-47.** Please provide a table that includes specific mitigation measures and/or actions to be taken during construction and operations to show conformity with all biological resources laws, ordinances, regulations and standards (LORS) as well as any adopted local, regional, state, and federal land use plans, leases, and permits that would apply to the project.

## REFERENCES

CDFG – California Department of Fish and Wildlife. 2012. Staff Report on Burrowing Owl Mitigation. Available at:

<https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=83843&inline=true>

CDFW – California Department of Fish and Wildlife. 2023. Survey considerations for California Endangered Species Act (CESA) Candidate Bumble Bee Species.

Available at:

<https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=213150&inline>

## CULTURAL AND TRIBAL CULTURAL RESOURCES

The source citations in Section 5.1 Cultural Resources and Tribal Cultural Resources and the entries in the section's references contain missing, conflicting, or incorrect information. Correction is necessary to satisfy California Code of Regulations, title 20section 1704 (a) (3) (C).

**DR CUL/TRI-1.** Provide bibliographic information for these text citations: Bean 1968, California Geological Survey 2002, Chin et al. 1993, Fredrickson 1974, and Rolle 2003.

**DR CUL/TRI-2.** Page 5.1-1 cites Waters (1983) but the References only lists Waters (1992, not cited in text). Please reconcile.

**DR CUL/TRI-3.** Page 5.1-10 cites DAHP without a publication year. Page 5.1-51, References, provides 2023 as the publication year (Washington State Department of Archaeology & Historic Preservation (DAHP) 2023). Please add the publication year to the text citation if 2023 is correct.

**DR CUL/TRI-4.** Page 5.1-7 cites Kyle (2002) instead of Hoover et al. (2002); see page 5.1-48, References. Please change the text citation of Kyle (2002) to Hoover et al. (2002).

**DR CUL/TRI-5.** The digital object identifiers/universal resource locaters (DOI/URL) for two sources do not work. Please supply working DOIs/URLs for these references: Andreano (1970) and Fresno County General Plan (2000).

**DR CUL/TRI-6.** The bibliographic entry for Hinton (2008) on page 5.1-48 gives the volume number of this source as 11, when it should read 111. Please correct the bibliographic entry.

Pursuant to the CEC's Information Requirements for Applications, the application contained copies of previous cultural resources reports in confidential appendices (see Cal. Code Regs., tit. 20, §1704, Appendix B (g) (2) (B)). Two of the reports appear to be missing pages. Report FR-00367 (Dallas 1985) appears to be missing maps, whereas

report FR-01955 (Hector et al. 2003) lacks its table of contents, as well as pages 3, 4, and 48.

**DR CUL/TRI-7.** Provide the maps that are missing from Dallas. (1985)

**DR CUL/TRI-8.** Provide a copy of the table of contents and pages 3, 4, and 48 missing from Hector et al. (2003)

New pedestrian archaeological surveys shall be conducted inclusive of the project site and project linear facility routes, extending to no less than 200 feet around the project site, substations and staging areas, and no less than 50 feet to either side of the right-of-way of project linear facility routes (see Cal. Code Regs., tit. 20, §1704, Appendix B (g) (2) (C)). Figure 9 in the Confidential Cultural Resources Technical Report (Ogaz et al. 2023) indicates that archaeology survey coverage often exceeded the 50-foot requirement on either side of the right-of-way of the Gen-Tie Line. However, the same figure also indicates that the archaeological survey coverage does not extend beyond the boundaries of the solar facility or utility switchyard parcel.

**DR CUL/TRI-9.** Figure 9 indicates that the 200-foot buffer surrounding the project site was not surveyed. If this is correct, explain why the buffer area was not surveyed. Reconcile the figure if necessary.

**DR CUL/TRI-10.** If the pedestrian archaeological survey did not include the 200-foot buffer around the Solar Facility or Utility Switchyard Parcel, please direct qualified archaeologists to survey the 200-foot buffer areas of the archaeological study area.

- a. Space survey transects at 33 to 50-foot intervals.
- b. Report survey methods and results in an addendum to the cultural resources report and section of the application.
- c. The archaeologists shall record any cultural resources identified as a result of the survey on the appropriate Department of Parks and Recreation 523 forms.
- d. Submit any sensitive cultural resources information, such as the location of archaeological resources and tribal cultural resources, under request for confidential designation.

New cultural resources technical reports submitted with an application must conform to the format of the *Archaeological Resource Management Reports* (COHP 1990; see Cal. Code Regs., tit. 20, §1704, Appendix B (g) (2) (C)). The Confidential Cultural Resources Report, Appendix I-1 (Ogaz et al. 2023), does not conform to COHP's (1990) documentation standards in seven areas, as described in the following data requests.

**DR CUL/TRI-11.** List the relevant USGS topographic quadrangles as well as the acreage of the study area on the cover/title page of the report (COHP 1990, page 5).

**DR CUL/TRI-12.** Describe the approximate acreage of cultural resources study area, including the gen-tie line (COHP, page 7).

**DR CUL/TRI-13.** Add the quadrangle names to Figure 9, per COHP (1990, page 7).

**DR CUL/TRI-14.** Several citations lack bibliographic entries in the References section of the report (Ogaz et al. 2023). The References section contains numerous entries that are not cited in the text. References and text citations suffer from inconsistencies as well.

- a. Add bibliographic information to References for Bean (1968), Frame Finder (2023), Fredrickson (1974), Hoover et al. (1966), NPS (1997), Rolle (2003), and USGS (1956, 2022, 2023).
- b. The report cites Waters (1983), but the References only lists Waters (1992, not cited in text). Please reconcile.

**DR CUL/TRI-15.** Several citations lack bibliographic entries in the References section of the research design (Rincon 2022). Add bibliographic information to References for Bean (1968), Borejsa et al. (2014), Dibblee (1971), Dibblee and Minch (2007), GWH-WCM (1939), NETR Online (2022), Rolle (2003), USGS (2022), and Waters (1992).

**DR CUL/TRI-16.** Table 4 and Figure 10 of the Cultural Resources Technical Report shows a newly recorded archaeological resource, Darden-ISO-MRL-75, with no corresponding Department of Parks and Recreation 523 form provided. Please submit a copy of the Department of Parks and Recreation 523 form for Darden-ISO-MRL-75.

**DR CUL/TRI-17.** Per Subsection 5.1.6.2 and Table 5.1-5 of the application, the project would be subject to Section 7050.5 of the California Health and Safety Code which states that in the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains until the Coroner of the county in which the remains are discovered has determined if the remains are subject to the Coroner's authority. Please include in Table 5.1-6: The name, title, phone number, address (required), and email address (if known), of contact person for the Fresno County Coroner's office.

## REFERENCES

- Andreano 1970 – Ralph Andreano. "The Structure of the Petroleum Industry, 1895-1911." *Pacific Historical Review* 39(2):171–192.  
<https://doi.org/10.2307/3637435>. Accessed December 2022.
- Bean 1968 – No bibliographic information provided in the application
- California Geological Survey 2002 – No bibliographic information provided in the application
- Chin et al. 1993 – No bibliographic information provided in the application
- COHP 1990 – California Office of Historic Preservation. *Archaeological Resource Management Reports (ARMR): Recommended Contents and Format*. Sacramento, CA, February 1990.
- Dallas 1985 – Herb Dallas Jr. *An Archaeological Reconnaissance of the Martin Ranch (Proposed Off Highway Vehicle Acquisition Project) in Fresno County, California*. Confidential report on file, Southern San Joaquin Valley Information Center, California Historical Resources Information System, Bakersfield. Study FR-00367. Cultural Heritage Section, California Department of Parks and Recreation, Sacramento, California. June 1985.
- Fredrickson 1974 – No bibliographic information provided in the application
- Fresno County 2000 – Fresno County General Plan Policy Document. Electronic document:  
<https://www.co.fresno.ca.us/home/showpublisheddocument/18117/636753797422170000>.
- Hector et al. 2003 – Susan M. Hector, Micah Hale, and Catherine Wright. *Cultural Resource Inventory of the Path 15 Los Banos-Gates Transmission Line Construction Project, Merced and Fresno Counties, California*. Confidential report on file, Southern San Joaquin Valley Information Center, California Historical Resources Information System, Bakersfield. Study FR-01955. Prepared for Steigers Corporation, Littleton, CO. ASM Affiliates, Inc., Encinitas, CA. September 2003.
- Hinton 2008 – Diana D. Hinton. "Creating Company Culture: Oil Company Camps in the Southwest, 1920-1960." *The Southwestern Historical Quarterly* 111(4):369–387.  
<http://www.jstor.org/stable/30242400>.
- Hoover et al. 2002 – Mildred B. Hoover, Hero E. Rensch, Ethel Grace, and William N. Abeloe. *Historic Spots in California*. Revised by Douglas E. Kyle, Fifth Edition. Stanford, CA: Stanford University Press, 2002.
- Kyle 2002 – No bibliographic information provided in the application; same source as Hoover et al. 2002
- Ogaz et al. 2023 – A. Ogaz, C. Felt, and A. Losco. *Darden Clean Energy Project Cultural Resources Technical Report, Fresno County, California*. Confidential report on

file, Southern San Joaquin Valley Information Center, California Historical Resources Information System, Bakersfield. Prepared for IP Darden I, LLC and Affiliates c/o Intersect Power, LC, Beaverton, OR. Rincon Consultants Project No. 22-12530, Fresno, CA. October 2023.

Rincon 2022 – Rincon Consultants. *Darden Solar Project: Cultural Resources Research Design*. Ventura, CA, October 2022.

Rolle 2003 – No bibliographic information provided in the application

Waters 1983 – No bibliographic information provided in the application

Washington State Department of Archaeology & Historic Preservation (DAHP) 2023 – “Quonset Hut 1941-1960.” <https://dahp.wa.gov/historic-preservation/historic-buildings/architectural-style-guide/quonset-hut>. Accessed August 2023.

Waters 1992 – Michael R. Waters. *Principles of Geoarchaeology: A North American Perspective*. Tucson: The University of Arizona Press, 1992.

## **EFFICIENCY, ENERGY AND ENERGY RESOURCES**

The application lists diesel-fueled emergency backup generators (backup generators) and PEM electrolyzers as some of the equipment used in the project.

**DR EFF-1.** Please provide the manufacturing specification sheets for the backup generators and PEM electrolyzers.

**DR EFF-2.** Provide the fuel consumption rate of the backup generators (gal/hr).

**DR EFF-3.** Provide the energy consumption rate of the PEM electrolyzers (kWh/kg).

## **GEOLOGIC HAZARDS**

The Darden Solar Facility Preliminary Geotechnical Engineering Report, prepared by Terracon, dated October 13, 2023, was referenced multiple times in Section 5.16 Geological Hazards and Resources, but was not included in an appendix.

**DR GEO-1.** Please provide a copy of the Darden Solar Facility Preliminary Geotechnical Engineering Report, prepared by Terracon, dated October 13, 2023, referenced in Section 5-16 Geological Hazards and Resources.

Section 5.15 Paleontological Resources, Figure 5.15-1, of the opt-in application lists the geologic units at and in the vicinity of the project as Quaternary basin deposits (Qb), Quaternary fan deposits (Qf), Quaternary older alluvium (Pleistocene, Qoa), Tulare formation (QTt), and Oro Loma formation (Pliocene, Tol). Section 5-16 Geological Hazards and Resources, Figure 5.16-1a, lists the geologic units at and in the vicinity of the project as Quaternary Pilo-Pleistocene nonmarine (Qp), Quaternary fan deposits (Qf), Pleistocene nonmarine (Qc), Quaternary basin deposits (Qb), Undivided Pliocene nonmarine (Pc), Upper Miocene marine (Mu), and Lower Miocene marine (Mi). In

addition, the geologic contacts (the boundary which separates one rock body from another) at the western end of the project are not mapped in the same locations.

**DR GEO-2.** Please explain which of the two maps, Figure 5.15-1 or Figure 5.16-1a, is correct regarding geologic unit names and locations of geologic contacts in the western end of the project or explain the discrepancy in the mapping.

### **GREENHOUSE GAS EMISSIONS (CLIMATE CHANGE)**

According to Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.) a project can not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gas (GHGs). Staff needs more details on how the project would reduce GHG emissions, especially as it relates to the diesel-fueled emergency backup generators (backup generators) proposed as part of the project.

**DR GHG-1.** Explain how the proposed installation of backup generators at the project site is consistent with the State of California's goal of achieving carbon neutrality no later than 2045.

**DR GHG-2.** What other technologies or fuel alternatives to diesel for the backup generators have you explored and why were they not pursued?

**DR GHG-3.** Has the project applicant explored the procurement of renewable diesel and/or carbon offsets as a means of demonstrating consistency with the State of California's goal of carbon neutrality? If not, why not?

In accordance with the Bipartisan Infrastructure Law, the U.S. Department of Energy Clean Hydrogen Production Standard sets a goal for well-to-gate lifecycle greenhouse gas emissions at or below 4.0 kilograms of carbon dioxide equivalent per kilogram of hydrogen gas (kgCO<sub>2</sub>e/kgH<sub>2</sub>), as well as achieving 2.0 kgCO<sub>2</sub>e/kgH<sub>2</sub> at the site of production. This target reflects compliance with legal mandates that necessitate an assessment beyond on-site production emissions, considering technological and economic feasibility. The aim is to promote the production of clean hydrogen from a variety of energy sources. Staff will need additional evidence to determine compliance with this requirement.

Chapter 4, Section 4.3.1 states that the green hydrogen facility would use power generated by the solar facility and stored by the BESS, which would be supplied behind the meter. The green hydrogen facility would also connect to the power grid to support auxiliary site loads during periods of no solar production and depleted energy storage. Backup generators would provide emergency backup power if solar power is not available during a grid outage. Therefore, this assessment should include the various methods for powering the hydrogen facility, including solar PV, BESS, grid power, and backup generators. If the backup generators are not reasonably expected to supply power to the hydrogen facility, the backup generators should still be included in the

calculations to account for their readiness testing and maintenance emissions since they would be located at the site for the sole purpose of supporting the hydrogen facility.

Subsection 4.4.2 states that the BESS would produce approximately 419.75 GWh or 419,750 MWh per year (considering 1 discharge cycle per day per year). It is anticipated that the BESS would operate in charge mode 1,570 hours each year and in discharge mode 1,460 hours each year (assuming 1 cycle per day per year). Section 4.4.3 states that the hydrogen facility would operate between 14 and 24 hours per day (5,110 to 8,760 hours per year), requiring up to 1,150 MW of energy at any given time. This equals 5,876.5 GWh to 10,074 GWh per year of energy needed to run the hydrogen facility. Staff needs to better understand how often each of these power sources are expected to provide power to the hydrogen facility.

**DR GHG-4.** Please provide a schedule identifying when and how often each of the various means of electricity would provide power to the hydrogen facility (i.e., solar PV, battery storage, grid power, backup generators) to support the analysis conducted as part of **DR GHG-5**.

**DR GHG-5.** Please verify the facility will adhere to the target of 4.0 kgCO<sub>2</sub>e/kgH<sub>2</sub> for lifecycle greenhouse gas emissions linked to hydrogen production as well as achieving 2.0 kgCO<sub>2</sub>e/kgH<sub>2</sub> at the site of production, both in standard operating periods (when the facility is powered by solar PV, battery storage, grid power and including emissions from readiness testing and maintenance of the backup generators) and times when power is provided by the backup generators.

**DR GHG-6.** Please explain why the backup generators are needed to support the hydrogen facility if redundant power supplies are already available (e.g., solar PV, battery storage, and grid power). Explain why the facility would not halt the production of hydrogen in the rare cases that power is not available from either solar PV, batteries, or the grid instead of using backup generators to produce hydrogen.

Chapter 2, Subsection 2.1.4.1 states that one of the applicant's objectives for the BESS is to contribute to meeting SB 100 policy objectives with a 2045 goal of California's electricity system to be carbon free by capturing and storing renewable energy when it is plentiful and dispatching for use when it is scarce. However, it is unclear if the BESS would be solely charged by the onsite solar PV system, or if the BESS would also have the capability to be charged by the grid.

Staff needs to better understand the direct and indirect GHG emissions associated with the BESS. If grid power is used to charge the BESS, staff needs to know what the indirect GHG emissions are assuming some loss in round-trip efficiency for charging/discharging and GHG emission intensity from the electrical grid during charging. Staff also needs to better understand the direct emissions associated with BESS cooling. Appendix N, Table 19 states that BESS battery cooling would result in

17,415 metric tons of carbon dioxide equivalent per year (CO<sub>2</sub>e). This number emission estimate is provided under operational emissions; however, the table is listed for construction related emissions.

**DR GHG-7.** Clarify whether the BESS would be exclusively charged by onsite PV or if grid power would also be utilized?

**DR GHG-8.** If the BESS system would also be charged by the grid, calculate the indirect GHG emissions. Provide assumptions for the number of hours annually the BESS system could be charged by the grid, the loss in round-trip efficiency for the charging/discharging cycle, and the GHG emission intensity factor from the electrical grid during charging.

**DR GHG-9.** Please explain how the 17,415 metric tons of CO<sub>2</sub>e was derived for BESS cooling (e.g., refrigerant cooling leakage?) and explain whether these emissions would occur during construction or operation.

## **HAZARDOUS MATERIALS HANDLING**

Subsection 5.9.8 in Section 5.9 Hazardous Materials references the Phase 1 Environmental Site Assessment from Stantec Consulting Services, but it was not included in an appendix. Additionally, Section 5.11 Waste Management references the two Phase 2 Environmental Site Assessments, but those were not included in an appendix.

**DR HAZ-1.** Please provide the following environmental site assessment reports from Stantec Consulting Services:

- a. Phase I Environmental Site Assessment, Forty-Two Parcels (9,116 Acres) Northwest of SR-145 and Mt Whitney Avenue, Fresno County, California.
- b. Phase II Environmental Site Assessment and Limited Soil Sampling, Generation Tie Line Easement and Support Facilities, Northwest of SR-145 and Mt Whitney Avenue, Fresno County, California.
- c. Phase II Environmental Site Assessment, Forty-Two Parcels (9,116 Acres) Northwest of SR-145 and Mt Whitney Avenue, Fresno County, California.

Section 5.9, Tables 5.9-1, 5.9-2, and 5.9-3 provide essential information on the types, quantities, locations and toxicity of hazardous materials that would be used during the construction and operation of the proposed project. However, information is missing and there are several discrepancies between these tables and other information presented in the application that need clarification.

**DR HAZ-2.** For Table 5.9-1, please provide the quantity of lithium that would be present onsite for the BESS based on the project description (Chapter 2, p.2-7), which includes several different lithium-ion battery chemistries.

**DR HAZ-3.** Please update Table 5.9-3 to include the toxicity, reactivity and flammability for the lithium-ion BESS.

**DR HAZ-4.** Table 5.9-1 lists lead acid batteries as one of the possible energy storage options for the BESS. Please clarify if lead acid batteries would be used for the BESS and update Chapter 2 Project Description accordingly along with Tables 5.9-1, 5.9-2, and 5.9-3.

**DR HAZ-5.** Please demonstrate that the 400 gallons of hydrogen shown in Tables 5.9-1 and 5.9-2 matches the quantity of stored hydrogen shown in Chapter 4, Figure 4-1. If not, please update Tables 5.9-1 and 5.9-2 accordingly and provide the individual amount of hydrogen within each hydrogen storage container identified on Figure 4-1.

Chapter 2 mentions that the vented oxygen could be captured and sold as a byproduct (p. 2-11). However, no information about the oxygen that could be captured is provided in Tables 5.9-1 through 5.9-3.

**DR HAZ-6.** Please update Tables 5.9-1 to 5.9-3, to include the required information for the captured oxygen option. Please provide a site plan location for the captured oxygen and describe how the oxygen would be stored and sent off site.

The application contains a schematic site plan in Chapter 4, Figure 4-1 and Appendix P Fire Protection Philosophy for the green hydrogen option. However, the application does not contain any of this information for the BESS.

**DR HAZ-7.** Please provide a schematic site plan for the BESS that includes the locations for the emergency water storage. Please provide fire protection basis of design for BESS (similar to Appendix P for the hydrogen facility).

## **LAND USE**

Section 5.2 Land Use, Subsection 5.2.1.1 states that the Westlands Water District is actively pursuing retirement of 100,000 acres of agricultural land within its boundaries, including 9,100 acres on which the project would be located. The application states that this retirement of agricultural land will occur with or without the project. The literature cited as a reference for this information is a Groundwater Sustainability Plan, dated July 2022, prepared for the Westlands Water District and the County of Fresno. The application's References section does not provide a website address for this plan.

**DR LAND-1.** Please confirm that the plan referenced is "Westside Subbasin Groundwater Sustainability Plan" (clarified and amended GSP) dated July 2022, and provide the website address of the plan. If not available on a website, please provide the document.

**DR LAND-2.** Please provide the page numbers of the Groundwater Sustainability Plan that identify the project area as part of the agricultural land the Westlands Water District is planning to retire.

Section 5.2, page 5.2-33 of the application provides a summary of the Farmland Mapping and Monitoring Program (FMMP) designations of certain project components. Staff needs a more complete breakdown of FMMP agricultural land designations for each project option to more fully understand the acreage of FMMP agricultural land impacted by each project option.

**DR LAND-3.** Please provide the total acreage of Prime Farmland, Farmland of Statewide Importance, Unique Farmland, Farmland of Local Importance, and Grazing Land (FMMP agricultural land designations) impacted for each of the following project scenarios (shown in Figure 5.2-6a of the application on page 5.2-34):

- a. FMMP agricultural land designations by acreage for the entire project if "Option 1" is chosen (including the gen-tie line);
- b. FMMP agricultural land designations by acreage for the entire project if "Option 2" is chosen (including the gen-tie line);
- c. FMMP agricultural land designations by acreage for the entire project if "Option 1" and "Alternate Green Hydrogen Site" are combined; and
- d. FMMP agricultural land designations by acreage for the entire project if "Option 2" and "Alternative Green Hydrogen Site" are combined.

Table 5.2-5 on page 5.2-54 of the application omits analysis of the project's consistency with two relevant County of Fresno General Plan policies.

**DR LAND-4.** Please provide an analysis of the project's consistency with General Plan policies LU-A.3 and LU-B.3.

As discussed on pages 5.2-18, 5.2-54, and 5.2-73 to 5.2-74 of the application, Chapter 3, Section 853 of the County of Fresno Zoning Code states that public utility uses are subject to an unclassified conditional use permit.

**DR LAND-5.** Please discuss how the project would meet the County's Conditional Use Permit findings listed in Chapter 4, Section 873 (F.) of the County of Fresno Zoning Code. Include an itemized discussion that addresses each requirement of the County of Fresno Solar Facility Guidelines (as revised by the Board of Supervisors on 12/12/17).

## **NOISE**

Noise level predictions from the operation of Option 1 and 2 of the green hydrogen facility are missing in the application. Section 5.3 Noise, page 5.3-31 of the application

states that modeling noise levels from the green hydrogen facility at this time would be speculative. However, for staff to fully evaluate the noise impact of the hydrogen facility, staff needs the following information.

**DR NOISE-1.** Please provide a range of anticipated noise levels from the operation of the green hydrogen facility for each option.

## **PROJECT DESCRIPTION**

In Chapter 1 Executive Summary, Subsection 1.2.2 includes a description of the project elements and a statement under “green hydrogen facilities” appears to describe how the various project elements would interact. Specifically, the operation of the hydrogen facility would be fully electric and would be powered by behind-the-meter renewable power generated by the solar facility and stored by the battery energy storage system (BESS) and from grid power when renewable power is not available.

Up to six self-contained diesel-fueled emergency backup generators (backup generators) ) would supply emergency power to the hydrogen facility for all critical loads when electric power is not available. Each of the six gensets would have two engines with approximately 670.5 horsepower per engine.

Also, in Subsection 1.1 Project Objectives bullet five, the application states that the project would generate wholesale electric power to serve the rate payers of the Fresno County region and the state of California. However, in Chapter 4 Engineering, Section 4.4 Efficiency, the megawatt-hours from the solar facility and battery facility, combined, would be less than the megawatt-hours required by the hydrogen facility operating a 14-hour schedule.

**DR PD-1.** Please provide a description of how the solar facility, battery facility, and hydrogen facility would interact with each other. For example, would the solar facility primarily provide power to the electrical grid, or would the solar facility primarily service the hydrogen facility, and when would the BESS be charged?

In Chapter 2 Project Description, Subsection 2.1.5.4, p. 2-9, the application states that once constructed, the project would interconnect into an offtake hydrogen pipeline (which could include the Southern California Gas Company Angeles Link project) via a stub pipeline that would be constructed within the project footprint and require an approximate 90-foot corridor. Staff needs to consider the impacts of this on-site stub pipeline. An on-site stub pipeline route and construction and operation details are needed for staff’s analysis. As there are three locations being considered for the hydrogen facility, at least three stub pipeline routes need to be identified and evaluated.

**DR PD-2.** Please describe where on the project site the green hydrogen stub pipeline would be proposed and confirm the approximate length and width of the corridor. Please show the location on a figure and GIS shape file.

**DR PD-3.** Please include the technical details for the hydrogen stub pipeline including but not limited to pipeline pressure, material, diameter, and applicable safety codes.

**DR PD-4.** Please describe the construction methods that would be used, including dimensions of sub-surface work, for each of the alternative on-site hydrogen stub pipeline routes.

**DR PD-5. [RESERVED]**

**DR PD-6.** Please add the Southern California Gas Company Angeles Link project to the Cumulative Projects List (Table 5-1), along with supporting information about the project's details.

Subsection 2.1.5.4 discusses hydrogen gas transport and states that on-site storage would not be required if the interconnection pipeline can accept fluctuating rates of injection and that off-site transportation is still under development by third parties and details are not available. However, Subsection 4.1.4.3 of the application states, "The hydrogen facility would have a control building, electrolyzer facility, water treatment plant, and hydrogen purification, compression, and storage facilities." In addition, Figure 4-1 shows an outline of hydrogen compressors, hydrogen storage racks and cylinders, and a hydrogen exposure zone. For staff to fully evaluate the project's impacts, staff needs the information requested in the following data request.

**DR PD-7.** Please update the project description to resolve the discrepancy between subsections 2.1.5.4 and 4.1.4.3. If hydrogen would be stored on the project site, please update and provide additional information about the impacts of hydrogen storage in the appropriate technical sections.

Chapter 2 mentions that the vented oxygen could be captured and sold as a byproduct (p. 2-11) However, no information is provided about the oxygen that could be captured in the project description.

**DR PD-8.** Please update the project description section, to include the required information for the captured oxygen option. Please provide a site plan location for the captured oxygen and describe how the oxygen would be stored and sent off site.

Subsection 4.3.2.2 of the application states that the BESS is anticipated to use lithium iron phosphate lithium-ion battery technology. However, subsection 2.1.4.2 of the application states that the project could use any commercially available battery technology, including but not limited to lithium ion, lithium iron phosphate, nickel manganese cobalt, and nickel cobalt aluminum batteries.

For staff to fully evaluate the project's impacts, i.e., impacts to resource allocation, fire safety, waste management, staff needs the information requested in the following data requests.

**DR PD-9.** Please provide further information as to which battery technology would in fact be used for this project.

**DR PD-10.** Describe the depths of excavation for the transformer pads, inverter piles, step-up substation, operations and maintenance buildings and facilities, BESS foundations, green hydrogen facility, and switchyard structures (COHP 1990, p. 7)

**DR PD-11.** Please provide a site plan with layout for the BESS, including but not limited to number of battery systems, BESS arrangement, access roads and pathways.

Analysis of many types of environmental impacts hinges on the description of the kinds of ground disturbance proposed. The application does not adequately describe the ground disturbance associated with preparation of the gen-tie right-of-way.

**DR PD-12.** Will the applicant mow or grade the entire gen-tie right-of-way? If so, to what depth?

Chapter 1 Executive Summary, Subsection 1.4.1, states the electric transmission facilities would be owned and operated by Pacific Gas and Electric Company (PG&E). Staff needs confirmation that the "electric transmission facilities" only includes the 500 kV utility switchyard and that the 500 kV transmission line loop-in and the 10- to 15-mile 500 kV generation intertie (gen-tie) line would be owned and operated by the applicant (IP Darden I, LLC and Affiliates).

Also, Subsection 1.4.1 discusses an agreement between the project owner and PG&E that defines the construction, operation and ownership of electric transmission facilities required for the reliable interconnection of the Darden Clean Energy Project. The agreement with PG&E pertains to the operation and maintenance of facilities under the CEC's jurisdiction.

**DR PD-13.** Please provide the Letter Agreement with PG&E from May 18, 2023.

Appendix A included the current assessor's parcel numbers and owners' names and addresses for all parcels within 500 feet of the proposed transmission line and other linear facilities, and within 1000 feet of the proposed powerplant and related facilities as required per Appendix B (a) (1) (E); however, no direct mailing addresses for occupants of properties contiguous to the proposed power plant, related facilities, transmission lines, or other linear facilities was provided. There was no discussion of why they were not provided.

**DR PD-14.** Please provide the direct mailing addresses for occupants of properties contiguous to the proposed power plant, related facilities, transmission lines, or other linear facilities as shown on the latest equalized assessment roll or if no there are no occupants for properties contiguous to the power plant, related facilities, transmission lines or other linear facilities, please make a statement to that.

Appendix F includes a list of assessor parcel numbers in C.103 to C.105 zoning plan that are inconsistent with the list of assessor parcel numbers listed in Chapter 1 Executive Summary, Table 1-1. For example, Table 1-1 lists APN 04007031, while in Appendix F on C.103, lists APN 04007031ST (parcel identifier 5).

**DR PD-15.** Please clarify which source has the correct list of APNs and correct any errors.

Per Appendix B, (a) (1) (D), a full-page color photographic reproduction depicting the visual appearance of the site prior to construction, and a full-page color simulation or artist's rendering of the site and all project components at the site, after construction.

**DR PD-16.** Please provide recent aerial photo(s) showing the entire project site prior to construction, and then using the same photo(s) provide a simulation or artist's rendering showing all project components at the site after construction.

## **REFERENCE**

COHP 1990 – California Office of Historic Preservation. *Archaeological Resource Management Reports (ARMR): Recommended Contents and Format*. Sacramento, CA, February 1990.

## **PUBLIC HEALTH**

Staff needs a more complete and accurate references list in Section 5.8 Public Health.

**DR PH-1.** Certain citations are missing from the reference list. Please include the institution names instead of leaving them blank.

Subsection 5.8.3.2 proposed a mitigation plan for fugitive dust control prior to site preparation, grading activities, or ground disturbance. Staff will need additional mitigation measures for fugitive dust and exhaust source types.

**DR PH-2.** Regarding fugitive dust and exhaust, please verify if there are any additional mitigation measures for use during construction, such as vehicle speed on unpaved roads and loose materials covering and limitations on idling running time for diesel equipment.

Subsection 5.8.1.2 states that the health risk assessment for cancer risk and chronic risk was performed using the unit emission rate dispersion pattern

calculated from AERMOD and diesel particulate matter (PM) as the pollutant for HARP2. The emissions of stationary sources were multiplied by the area sources results to estimate the concentrations. Staff will need additional analysis for the health risk assessment.

**DR PH-3.** One of the values in Chronic Risk Option 2 point of maximal impact (PMI) exceeds the threshold significantly. Please check this discrepancy and review the remaining results.

**DR PH-4.** Please conduct the acute exposure analysis by categorizing diesel exhaust into the primary toxic air contaminants.

**DR PH-5.** Please provide the proposed point source locations of all backup generators and provide the modeling results of diesel PM from readiness testing and maintenance operations by treating the stationary sources as point sources at each of the proposed locations.

## **SOCIOECONOMICS**

**DR SOCIO-1.** Per Appendix B (g) (7) (A) (iv), provide the availability of skilled workers by occupation for operation of the project.

**DR SOCIO-2.** Per Appendix B (g) (7) (B), provide the year of the estimate used in the discussion of the socioeconomic impacts caused by construction and operation of the project.

**DR SOCIO-3.** Per Appendix B (g) (7) (B) (i), provide the estimated number of workers employed by occupation for each month during construction.

**DR SOCIO-4.** Per Appendix B (g) (7) (B) (v), provide the response times to hospitals and for police protection, fire protection, and emergency services.

**DR SOCIO-5.** Per Appendix B (g) (7) (B) (vii), provide the total annual operation payroll for permanent and short-term (contract) operation employees.

**DR SOCIO-6** Per Appendix B (g) (7) (B) (viii), provide an estimate of the total annual expenditures for locally purchased materials for the operational phase of the project.

**DR SOCIO-7.** Per Appendix B (g) (7) (B) (xi), provide an estimated dollar amount of the property taxes generated during an operational year of the project.

**DR SOCIO-8.** Per Appendix B (i) (2), provide the name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.

## SOILS

Per Appendix B (g) (15) (A), a map at scale 1:24,000 depicting soil type and all agricultural land uses affected by the project should be included. Section 5.14 Soils, Figures 5.14-1b to 5.14-1h depict soil type, but do not include agricultural land uses. In addition, the figures have a scale of approximately 1:40,000.

**DR SOIL-1.** Please revise Figures 5.14-1b to 5.14-1h to include agricultural land use at a scale of 1:24,000.

## TRAFFIC AND TRANSPORTATION

**DR TRANS-1.** The Argo-West Airport was identified in Section 5.4 Traffic and Transportation as being located approximately 1.3 miles from the project site; however, CEC staff identified the airport as being located along S. Sanoma Avenue between W. Oakland Avenue and W. Packard Avenue, approximately 6 miles south of the nearest project components. Staff requests clarification of the location of the airport, a map at the requisite scale, and revised description of the location of the nearby airports and their distances from the project as required per Appendix B (g) (5) (B) (i). If the airport is located within four miles of the project, staff requests the applicant consult with the owners of the airport to determine and provide the extent of the operations conducted (e.g., hours of operation, purposes of flights, number of flights, aircraft types, and flight paths) at the airport as it is a private airport and there is not information available online.

Chapter 2 Project Description, Subsections 2.1.6.5 Hydrogen Electrolyzer Operations and 2.1.14 Cooling System states the project's hydrogen electrolyzer system may vent oxygen and the cooling system would reject heat to the atmosphere, but exhaust parameters for the systems are not provided. Alternatively, to venting the oxygen, the application discusses potentially capturing it and selling it as a byproduct. If the oxygen is vented, the facility would be designed to ensure there is no likelihood of an oxygen cloud forming or creating a hazard. However, the application does not provide a description of how the facility would be designed to ensure no likelihood of high concentrations of oxygen cloud forming or creating a hazard, nor is there a discussion of how the oxygen would be captured and sold as a byproduct as well as the associated equipment and activities required for both potential processes.

The land surrounding the project site is predominantly used for agricultural crop production and requires crop maintenance activities such as aerial pesticide and herbicide applications. Therefore, staff requests the following information to evaluate potential thermal plumes from the hydrogen electrolyzer and cooling systems.

**DR TRANS-2.** Please provide the following information in order for CEC staff to confirm the oxygen and heat rejection data:

- a. Stack height (meters) for oxygen and heat release points for the hydrogen electrolyzer and cooling systems.

- b. Exhaust temperature (Kelvin) for the hydrogen electrolyzer oxygen and cooling system heat.
- c. Exit velocity (meter per second) for the hydrogen electrolyzer and cooling system.
- e. Stack diameter (meters) for the hydrogen electrolyzer and cooling systems.
- f. Number of oxygen and heat rejection points.
- g. Arrangement and distance between similar heat rejection/exhaust/ equipment (e.g., hydrogen electrolyzer and cooling system) (meters).

**DR TRANS-3.** Provide a thermal plume analysis supporting the conclusion that the oxygen cloud and heat rejection would not create a hazard to the existing environment.

**DR TRANS-4.** Provide a description of the oxygen capturing process and include additional ADT required for this process in Table 3-1b in Appendix K.

In Section 5-10 Worker Safety, page 5.10-10, the applicant discusses helicopter activities required for the construction of the transmission towers and wire stringing activities. Helicopter activities include hanging travelers, pulling conductor and optical ground wire, dead-end activities, and the installation of bird diverters. However, the Helicopter Use Plan was not included in the application because ground-based construction activities may be utilized. From CEC staff's experience, transmission line construction activities commonly require the use of a helicopter for installation of the system. Additionally, the transmission line corridor is located slightly north of W Harlan Avenue (an agricultural use dirt road), crosses Interstate 5 and the Governor Edmund Brown California Aqueduct. The use of a helicopter for the construction of the transmission line would be required.

**DR TRANS-5.** Please provide a Helicopter Use Plan. In addition to the documents listed on page 5.10-10, provide a map depicting the location of the approved landing areas, refuel station, hanger location and all equipment laydown and construction worker parking areas. If the transmission line corridor requires the construction of access roads or reinforcement of the existing access road provide of a discussion of activities required to complete road improvements.

Section 5.4 Traffic and Transportation references the California Department of Transportation (Caltrans) Vehicle Miles Travelled (VMT) Guidelines but fails to include the Fresno Council of Governments (FCOG) VMT Analysis Guide, which provides guidelines, VMT thresholds, a project screening map and a VMT calculation data tool. Specifically, in FCOG's VMT Analysis Guide under Section 3.1 Land Use Development Projects, it is acknowledged that conditions may exist that would presume a land use development project has a less than significant impact and provides a list of attributes

that categorize a project as such. One attribute is if the project generates fewer than 500 average daily trips (ADT).

**DR TRANS-6.** Please provide an updated VMT analysis in Section 5.4 Traffic and Transportation and Appendix K that utilizes FCOG's VMT analysis methodology to support the VMT impact conclusion.

Table 3-1b in Appendix K, entitled "Daily Average Project Trips During Operation," provides the trip type and daily trip amount but does not provide the Transportation Engineers (ITE) Trip Generation Manual land use code or trip rate. The table does not contain a passenger car equivalent (PCE) trip adjustment for expected truck trips required for operation and maintenance activities. Furthermore, the number of operational trips in the table, 80 ADT, is inconsistent with information in Section 5.4 Traffic and Transportation page 5.4-29 which states, "Operation of the Project would generate approximately 104 daily vehicle trips."

**DR TRANS-7.** For Table 3-1b, please provide the ITE land use code, the PCE trip adjustment for expected truck trips for operation and clarify the correct estimated number of ADT for operation of the project.

The application does not contain project access information. Staff needs to know how the site will be accessed and if construction of new roads are required.

**DR TRANS-8.** Please provide a description of access points for each project component (e.g., solar facility, battery energy storage system, green hydrogen facility, step-up substation, transmission line corridor, and the PG&E utility switchyard) and clearly marked maps illustrating the location of the new roads.

**DR TRANS-9.** Per Appendix B (i) (2), provide the name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.

## REFERENCES

FCOG -Fresno County SB 743 Implementation Regional Guidelines. Fresno Council of Governments. January 202. Available at:  
[https://fresnocog.wpenginepowered.com/wp-content/uploads/2021/01/Fresno-COG-VMT-Report\\_01-08-2021.pdf](https://fresnocog.wpenginepowered.com/wp-content/uploads/2021/01/Fresno-COG-VMT-Report_01-08-2021.pdf)

## TRANSMISSION SYSTEM DESIGN

The California Environmental Quality Act (CEQA) requires the identification and description of the "Direct and indirect significant effects of the project on the environment." The Opt-in Application requires discussion of the "energy resource impacts which may result from the construction or operation of the power plant." For the identification of impacts on the transmission system resources and the indirect or

downstream transmission impacts, staff relies on the Phase I and Phase II Interconnection Studies to ensure the interconnecting grid meets the California Independent System Operator (California ISO) reliability standards. The studies analyze the effect of the proposed project on the ability of the transmission network to meet reliability standards. When the studies determine that the project will cause a violation of reliability standards, the potential mitigation or upgrades required to bring the system into compliance are identified. The mitigation measures often include the construction of downstream transmission facilities. CEQA requires the analysis of any downstream facilities for potential indirect impacts of the proposed project. Without a complete Phase I or Phase II Interconnection Study, staff is not able to fulfill the CEQA requirement to identify the indirect effects of the proposed project.

Complete descriptions of the of the project transmission and interconnection facilities are also required to determine whether the project, as proposed, would comply with General Order 95 and 128 construction standards. Therefore, please provide following information:

**DR TSD-1.** Please provide the comprehensive (all appendices) California ISO Phase I Interconnection Study and, when available, the Phase II Interconnection Study.

**DR TSD-2.** Provide legible one-line diagrams of the Darden project's substation and the switching station used to connect the project to PG&E's 500 kV system. Show all the equipment ratings, including the bay arrangement of the breakers, disconnect switches, buses, and other equipment that would be necessary for the interconnection of the project.

**DR TSD-3.** If the California ISO Phase I or (when available) Phase 2 Interconnection Study indicate that the Darden Clean Energy Project cannot be reliably connected to the PG&E grid without additional transmission facilities not analyzed in the Opt-in Application, please provide the necessary information to support a CEQA analysis for all downstream upgrades needed for the Darden Clean Energy Project.

**DR TSD-4.** Please provide grounding details of the proposed project's substations, switching stations, and generator-tie line. If it is available, please provide the expected Electro Magnetic Field and Electric Field values, below the gen-tie line.

**DR TSD-5.** Please provide the number of 500 kV structures that would be necessary to construct the gen-tie line and its chosen conductor type, size, and current carrying capacity.

Proposed modifications to PG&E owned and operated transmission facilities, and the proposed transfer of ownership of transmission facilities may require approval from the California Public Utilities Commission. Therefore, please provide the following information:

**DR-TSD-6.** An expected schedule for necessary approvals from the California Public Utilities Commission.

**DR TSD-7.** Please provide a table that identifies laws, regulations, ordinances, and standards (LORS) FLOP which are applicable to transmission facility construction.

**DR TSD-8.** Please provide a table that identifies each agency with jurisdiction to issue transmission system design applicable permits, leases and approvals or enforce state and federal LORS.

## **VISUAL RESOURCES**

**DR VIS-1.** Provide an electronic file via Kiteworks containing all key observation point(s) (KOP) photograph(s) and photo-realistic simulation(s) capable of 11" x 17" color print at a minimum 600 dpi output resolution.

## **WASTE MANAGEMENT**

In accordance with Appendix B (g) (12) (B), the estimated annual weight or volume for each anticipated waste stream should be included. Many of the waste streams identified in Section 5.11, Table 5.11-1 (construction) and Table 5.11-2 (operation) have TBD (To Be Determined) under the "Estimated Total Quantity" column.

**DR WASTE-1.** Please revise Table 5.11-1 and Table 5.11-2 to include an estimated quantity for each identified waste stream. In addition, please provide the estimated total waste generated during construction and the estimated annual waste generated during operation, so that impacts to local landfill facilities can be evaluated.

## **WATER RESOURCES**

Section 5-13 Water Resources, Subsection 5.13.1.6, states that several options for brine waste disposal are being considered, including disposal via deep injection well, disposal by discharge to land, or incorporating a zero-liquid discharge system that would produce solid waste for disposal, among others. The application documents did not include necessary details and information needed to obtain the necessary permits pertaining to each of the disposal methods. There were no details on discharge plans for other wastewater streams in the application. The applicant's statement filed to the project's docket on December 8, 2023 (TN 253570) notes that the Zero Liquid Discharge option has been selected for the brine discharge.

**DR WATER-1.** For each wastewater disposal option being considered, please provide information including a detailed description of all facilities to be used in water conveyance, a process flow diagram showing a water balance table, and estimated flow rates in average, maximum daily, and annual water demand and wastewater discharge.

**DR WATER-2.** For all wastewater management options, please provide a discussion related to significant assumptions, methodologies, and computational methods used in arriving at the wastewater disposal impact conclusions.

**DR WATER-3.** Please provide the expected physical and chemical characteristics of all project source water and discharge wastewater streams including identification of both organic and inorganic constituents before and after any project-related treatment. For source waters with seasonal variation, provide seasonal ranges of the expected physical and chemical characteristics. Provide copies of background material used to characterize all project wastewater streams (e.g. laboratory analysis).

- a. If any project wastewater stream would be disposed via deep injection well, please provide the following items to comply with Department of Conservation Geologic and Energy Management Division (CalGEM) UIC regulation (CCR Title 14, Section 1961): injection reservoir conditions; method of injection; map showing contours on the geologic marker at or near the intended injection zone; and, one or more cross-sections showing the wells involved.
- b. If any project wastewater stream would be disposed by discharge to land option, please provide the information required to apply for individual waste discharge requirements (WDR). Please note that if any project wastewater stream would also be discharged to land, a separate WDR application for discharge from each wastewater stream would be required. Please submit a complete Report of Waste Discharge (RWD) in accordance with California Water Code section 13260. The RWD must include a completed Form 200, the required application fee, and a technical report that provides the necessary information about the proposed discharge(s). Please consider the general guidance document "Technical Information for a Report of Waste Discharge for Discharges to Land in the WDR (Non-15) Program (Individual WDRs Only)" that provides information for submitting a RWD for individual WDRs, and include any relevant information noted.
  - i. Please include a detailed description of the wastewater containment/handling facilities (including production facility and ancillary equipment such as water treatment facilities, filters, storage tanks, backwash systems and chemical dosing systems, evaporative ponds, etc.) and associated discharges, the expected physical and chemical characteristics of the proposed wastewater discharges, and provide groundwater quality and groundwater depth/elevation information for the Shallow Zone/first encountered groundwater (See **DR WATER-11**).
- c. For the discharge of brine or any other project wastewater stream using zero-liquid discharge, explain how system fluids are transported and handled to produce final solids, how solids would be stored on-site before disposal, and show system processes on process flow diagram (**DR WATER-1**).

Section 5.11, Subsection 5.13.1.1 states, "Figure 5.13-3, below, portrays the depth to groundwater across the subbasin, showing that depth to groundwater is greatest along the foothills and decreases towards the valley floor; this is consistent with elevation changes and drainage patterns flowing towards the valley floor." Figure 5.13-3 is titled "Depth to Groundwater." However, the inset caption in Figure 5.13-3 indicates that the figure shows elevation, not depth. After looking at the Westside Subbasin Groundwater Sustainability Plan (GSP) from which Figure 5.13-3 was obtained, the GSP figure depicts the ground surface elevation, not depth to groundwater or groundwater elevation.

**DR WATER-4.** Please re-evaluate Figure 5.13-3 and provide a detailed explanation of modifications made and any assumptions, methodologies, and computational methods used.

Subsection 5.13.1.1 states "The Project site is approximately centered within the subbasin, and the depth to groundwater underlying the solar facility site would be approximately 200 to 300 feet." This statement appears to be drawn from Figure 5.13-3, which, as presented above, appears to be incorrect.

**DR WATER-5.** To the extent that various impact analyses were based on the apparent erroneous assumption that the depth to groundwater below the Project site is approximately 200-300 feet, please re-evaluate the stated conditions and provide revised analysis and information. Provide a detailed explanation of modifications made and any assumptions, methodologies, and computational methods used.

Chapter 2 Project Description, Subsection 2.1.5.2, describes the ratio of demineralized water per pound of hydrogen produced and the ratio of potable water per pound of hydrogen produced. The section also references potential potable water infeasibility and indicates non-potable water use as an option.

**DR WATER-6.** Please provide discussion related to significant assumptions, methodologies, and computational methods used in arriving at these statements along with clarification of both potable and non-potable sources cited.

Section 5-11 Waste Management, Subsection 5.11.1.3, Table 5.11-2, shows and estimated waste quantity of 420 AFY from water treatment. Section 5-13, Section 5.13.1.5 states 240 AFY of waste from water treatment. It is unclear whether these amounts represent different waste streams from different sources.

**DR WATER-7.** Please clarify the waste stream sources and if from the same source, correct inconsistency between these amounts. Provide the computational methods used in arriving at waste stream amounts shown.

Subsection 5.13.7, Table 5.13-18 indicates that the National Pollutant Discharge Elimination System (NPDES) Statewide General Permit for Stormwater Discharges Associated with Industrial Activities (Industrial Stormwater Permit) is not applicable.

Since the Project involves the production of hydrogen, the Industrial Stormwater Permit may be applicable, as hydrogen manufacturing is one of the industrial activities (Standard Industrial Classification Code 2813: Industrial Gases) covered by the General Industrial Stormwater Permit. The applicant indicates that “The Project would not discharge to Waters of the US and is not subject to this permit.” While the Project may not discharge directly to waters of the United States, any discharge to onsite drainage features (agricultural drainage ditches, canals, etc.) that may, at times, ultimately drain to a water of the United States would constitute a discharge to waters of the United States.

**DR WATER-8.** Please reconsider and confirm whether the Industrial Stormwater Permit would apply to the green hydrogen facility and provide analysis justifying your position.

Section 5-13, Subsection 5.13.1.1, Figures 5.13-9a to 5.13-9h identify groundwater wells within 0.5-mile of the project site; however, the types of wells are not identified.

**DR WATER-9.** Please revise the figures to indicate the well types (e.g., irrigation, domestic, etc.).

Section 5-13, Subsection 5.13.1.1, Aquifer System Overview, describes the Westside Subbasin. It does not, however, include information on the present shallow zone groundwater depths.

**DR WATER-10.** Please amend the Shallow Zone paragraph to describe the present groundwater depth and/or groundwater elevation information (as related to ground surface datum).

Subsection 5.13.1.1, Groundwater Quality presents water quality information for the upper and lower aquifers. No information was provided on the water quality in the shallow zone.

**DR WATER-11.** Please revise to include water quality information for the Shallow Zone/first encountered groundwater.

Subsection 5.13.7, Table 5.13-18, shows incorrect information related to permit, authority and the trigger.

**DR WATER-12.** Please revise references including: NPDES Construction General Permit to show U.S. Army Corps. of Engineers 404 Permit; NPDES Statewide General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities Order 2009-0009-DWQ to show the correct Order number WQ 2022-0057-DWQ.

Subsection 5.13.1.5, states sanitary facilities would either consist of temporary or permanent facilities; however, it is unclear how and by what process permanent treatment would be provided.

**DR WATER-13.** Please provide a detailed description of proposed permanent facilities to be used, estimated flow rates in average, maximum daily, annual water demand and waste discharge, and method of wastewater disposal. Include discussion related to significant assumptions, methodologies, and computational methods used in arriving at design of permanent facilities and generated flow rates and waste quantities.

Appendix S, Part 1, states that the majority of the project will be developed on lands owned by Westlands Water District (WWD). Subsection 5.13.1.6 states land with existing water rights would be purchased for inclusion in the project site, and the water rights would be repurposed to provide water supply for the project. Specifically, municipal and industrial groundwater pumping rights would be conferred to the project companies through the transfer of land from WWD to the project companies. The status of specific transfers or exchanges from WWD is unclear.

**DR WATER-14.** Please provide the status of WWD approval for the proposed use (including any correspondence or documentation), the environmental impact analysis of the specific transfers or exchanges required to obtain the proposed water supplies, a copy of any agency regulations that govern the use of the water, and an explanation of how the project complies with the agency regulation(s).

Subsection 5.13.1.6 provides total water demand over a future projection of 20 years; however, the operational lifetime of the project may extend for up to 35 years.

**DR WATER-15.** Please revise water supply information to identify water demand for the operational lifetime of the project.

Subsection 5.13.1.6, Table 5.13-9, states that for water conveyance, pipelines would convey water from its source location or stored location, existing pipelines would be used as available, and new pipelines are also anticipated to be required.

**DR WATER-16.** Please indicate locations of existing or proposed water source or storage facilities. Provide a map showing existing pipelines for potential use and proposed new pipelines. Include these appurtenant facilities on the process flow diagram requested in **DR WATER-1** for all treatment and disposal systems considered.

Appendix S, Part 2.2, Water System Requirements states that an application for a water system is required to be submitted to the State Water Resources Control Board (SWRCB) local agency office to ensure compliance with mandatory state and federal drinking water requirements.

**DR WATER-17.** Please provide a copy of the application and supporting materials for a water system to support the project activities and human consumption by on-site operational workers.

Title 20, Appendix B (i) (3), requires a schedule indicating when permits outside the authority of the Commission (e.g., Federal Permits, permits from Regional Water Quality Control Board, etc.) will be obtained and the steps the applicant has taken or plans to take to obtain such permits.

**DR WATER-18.** Please provide a schedule indicating when all permits or other approvals outside the authority of the Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. Please consider permits or approvals for any conveyance or pipeline crossing waters of the U.S. or otherwise encroaching on federal or state facilities or rights of way.

Title 20, Appendix B, Part (g) (14) (B) (iv), requires a narrative discussion of project impacts related to flood control facilities (existing and proposed). Subsection 5.13.1 refers to Subsection 5.13.1.3, Stormwater, for impacts related to flood control facilities.

Subsection 5.13.1.3 refers to "Drainage Facilities and Design" for a description of drainage facilities and design criteria including capacity, design storm, and estimated runoff. "Drainage Facilities and Design" information related to flood control facilities was not provided.

**DR WATER-19.** Please provide information related to flood control facilities (existing and proposed) including a narrative discussion of project-related impacts.

Title 20, Appendix B (g) (14) (D) (iii), requires all assumptions and calculations used to calculate runoff and to estimate changes in flow rates between pre- and post-construction. Section 5-13, Subsection 5.13.3.2, states project design features would include a series of detention basins throughout the site to reduce stormwater and pollutant discharge from the project site. However, information related to pre- and post-construction storm water control facilities were not provided.

**DR WATER-20.** Please provide information related to all assumptions and calculations used to calculate runoff and to estimate changes in flow rates between pre- and post-construction including detention basin design and a narrative discussion of project related impacts. Include a map and associated basin sizing calculations and anticipated quantities for design storms analyzed.

Title 20, Appendix B (g) (14) (D) (iv), requires a copy of applicable regional and local requirements regulating the drainage systems, and a discussion of how the project's drainage design complies with these requirements. Information related to requirements and accompanying discussion were not provided.

**DR WATER-21.** Please provide information related to applicable regional and local requirements regulating the drainage systems, and a discussion of how the project's drainage design complies with these requirements.

Title 20, Appendix B (g) (14) (D) (vi) & (vii), requires the effects of the project on the 100-year flood plain, flooding potential of adjacent lands or water bodies, or other water inundation zones; and requires all assumptions, evidence, references, and calculations used in the analysis to assess these effects. Section 5-13, Subsection 5.13.1.4, and Subsection 5.13.3.2, discuss some the effects but is incomplete and does not provide all assumptions, evidence, references, and calculations used in the analysis to assess all effects.

**DR WATER-22.** Please provide information related to the effects of the project on the 100-year flood plain, flooding potential of adjacent lands or water bodies, or other water inundation zones. Provide all assumptions, evidence, references, and calculations used in the analysis to assess these effects.

Title 20, Appendix B (i) (1) (A), requires tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance with each law or standard during both construction and operation of the facility is discussed. Section 5-13, Subsection 5.13.5, Table 5.13-16 provided some of this information but did not explicitly reference pages in the application wherein conformance with each law or standard during both construction and operation of the facility is discussed. The reference points to the project's impact analysis; however, there is no discussion of the LORS and the project's conformity.

**DR WATER-23.** Please revise the information to explicitly reference pages in the application's impact analysis wherein conformance with each law or standard during both construction and operation of the facility is discussed.

## **WORKER SAFETY**

The location of this proposed project in the Central Valley of California has experienced multiple days of high heat (95° F and above as defined by Cal. Code Regs., tit. 8, § 3395) in the past decade due to global climate change and more days are predicted in the future. This important worker safeguard should be discussed and described in full.

**DR WS-1.** Please include a discussion of the implementation of California Code of Regulations, Title 8, section 3395 Heat Illness Prevention in Outside Places of Employment.

The proposed amount of hydrogen gas stored at the site was estimated by staff by viewing Figure 4-1 of Chapter 4 Engineering. This figure depicts hydrogen storage of 208 hydrogen gas cylinders, each stored in a rack of dimensions 8 feet X 10 feet X 20

feet. A search of hydrogen gas cylinders used for “green energy” shows two different sized cylinders could be used in each rack with an average volume of the two being 2,385 liters at standard temperature and pressure (1 bar at 0° Centigrade [C]). A computation gives the volume of hydrogen gas in each cylinder at typical storage conditions (200 bars; 20° C) times 208 cylinders as 496,080 liters of hydrogen gas. That volume equates to 15,865 pounds of hydrogen gas which could be stored at the site, thus triggering the requirements of California Code of Regulations, Title 8, section 5194 (threshold for hydrogen gas is 10,000 pounds).

**DR WS-2.** Please provide a complete description of how the project would comply with California Code of Regulations, Title 8, section 5189 Process Safety Management including training and section (e) of the standard regarding Process Hazard Analysis.

The proposed storage of large amounts of hydrogen gas and the use of any type of electrolyte in a BESS presents well-known hazards of fire and/or explosion. Detailed descriptions are necessary for staff to evaluate the impacts of all proposed alternatives.

**DR WS-3.** Please provide schematic engineering drawings detailing the location and type of all proposed fire detection, fire suppression, water supply and leak detection equipment for the BESS and Green Hydrogen portions of the project, and the location of hydrants, post indicator valves, and monitors for the fire water loop. Please provide this information for all proposed alternative locations or state that these systems will be the same. Additionally, please provide how any explosion hazards would be mitigated at the Green Hydrogen and BESS portions of the project.

Page 2-11 in Chapter 2 Project Description mentions that oxygen could be captured and sold as a byproduct. However, no information has been provided on this option in Section 5.10 Worker Safety.

**DR WS-4.** Please provide schematic engineering drawings for the stored oxygen option and provide a detailed description of how the oxygen would be stored (cryogenically or compressed), how it would be transported offsite, and a discussion of potential impacts to worker health and safety. Please detail any detection and fire protection systems that would be used for the oxygen storage system.

On page 5.10-13 in Section 5.10 Worker Safety, the application states operation and maintenance would be in accordance with 8 CCR 3401 – 3411. However, these sections of California Occupational Safety and Health Administration (CalOSHA) pertain to the personal protective clothing and equipment for fire fighters.

**DR WS-5.** Please provide information as to whether the project would have a private fire brigade on site. If so, please provide a description of the training and responsibilities of the private fire brigade.

Staff reviewed Table 5.10-6 and found that some names were omitted.

**DR WS-6.** Please provide the missing names of contacts found in Table 5.10-6.